

N° D'ORDRE

ANNÉE 1968

THÈSES

présentées

A LA FACULTÉ DES SCIENCES
DE L'UNIVERSITÉ DE NANTES

pour obtenir

LE GRADE DE DOCTEUR ÈS-SCIENCES NATURELLES

par

Jean-Pierre MARGEREL

PREMIÈRE THÈSE

LES FORAMINIFÈRES DU REDONIEN

SYSTÉMATIQUE - RÉPARTITION STRATIGRAPHIQUE - PALÉOÉCOLOGIE

TOME II (Planches)

DEUXIÈME THÈSE

PROPOSITIONS DONNÉES PAR LA FACULTÉ

Soutenues devant la Commission d'Examen le

1968

M. P. CAVET, Président

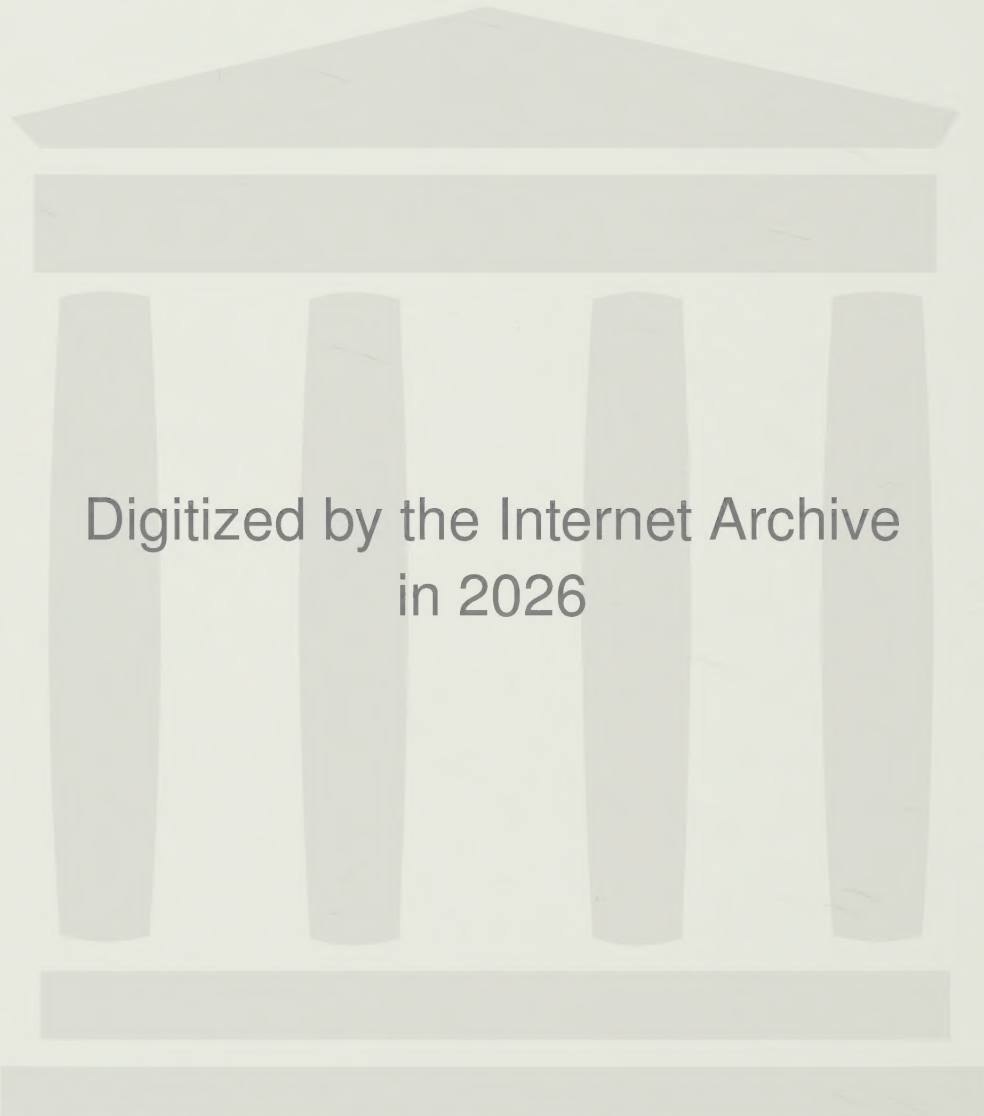
M. Y. GOURINARD

Mlle S. DURAND

M. F. OTTMANN

} Examinateurs

Mme Y. LE CALVEZ, Invitée



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PLANCHE 1

- Fig. 1, 2. — *Textularia conica* D'ORBIGNY. $\times 100$
Palluau (Vendée).
- Fig. 3, 4. — *Textularia truncata* HÖGLUND. $\times 60$
Palluau (Vendée).
- Fig. 5, 6, 7. — *Textularia pseudosagittula* n. sp. Holotype. $\times 55$
Falleron (Vendée).
- Fig. 8. — *Textularia pseudosagittula* n.sp. Paratypes. $\times 30$
Falleron (Vendée).
- Fig. 9. — *Textularia pseudosagittula* n. sp. Paratypes.
 $\times 20$
Pont-Levoy (Loir-et-Cher).
- Fig. 10, 11, 12. — *Textularia* aff. *transversaria* BRADY. $\times 60$
La Pressellière (Maine-et-Loire).
- Fig. 13. — *Textularia* aff. *transversaria* BRADY. $\times 60$
Le Temple-du-Cerisier (Ille-et-Vilaine).

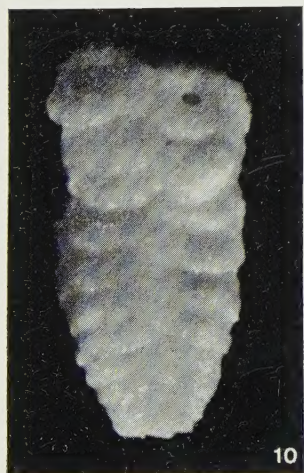
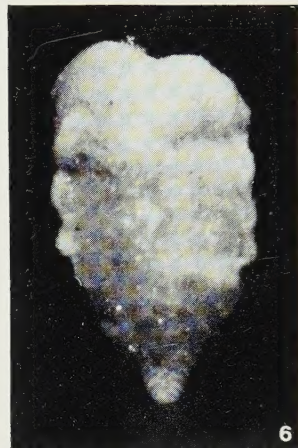
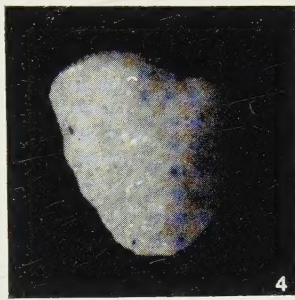
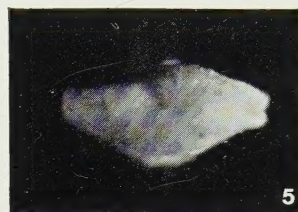
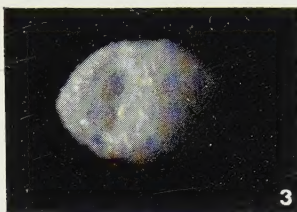
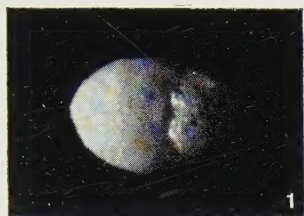
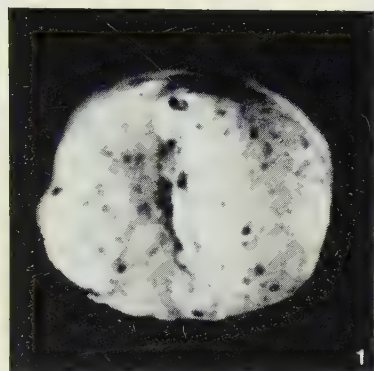
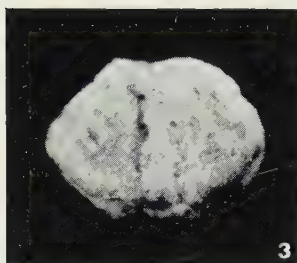


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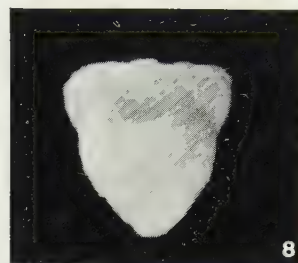
- Fig. 1, 2. — *Gaudryina rhodiensis* CUSHMAN. $\times 60$
Palluau (Vendée).
- Fig. 3, 4. — *Gaudryina rhodiensis* CUSHMAN (forme juvé-
nile). $\times 60$
Palluau (Vendée).
- Fig. 5, 6, 7. — *Gaudryina siciliana* CUSHMAN. $\times 60$
Palluau (Vendée).
- Fig. 8, 9. — *Gaudryina* sp. $\times 60$
Palluau (Vendée).
- Fig. 10, 11. — *Dorothia alleni* CUSHMAN. $\times 50$
Falleron (Vendée).
- Fig. 12, 13. — *Cyclogyra involvens* (REUSS). $\times 150$
Le Temple-du-Cerisier (Ille-et-Vilaine).



1



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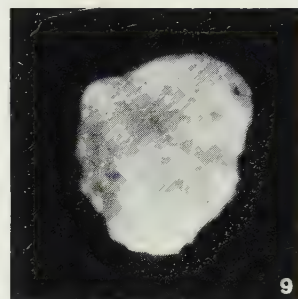
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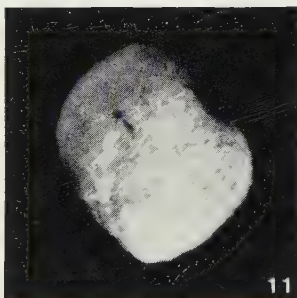
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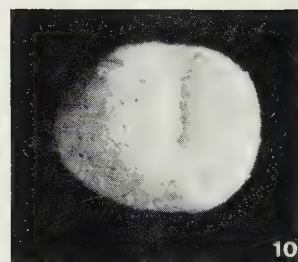
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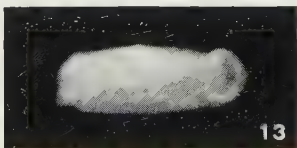
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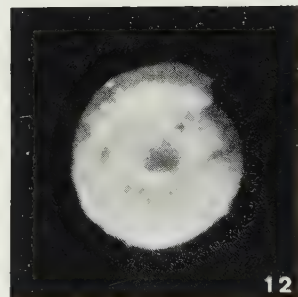
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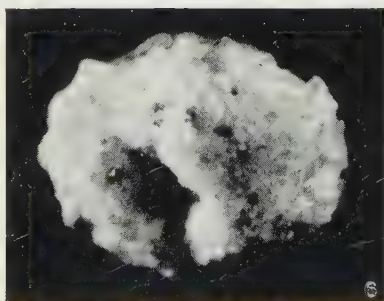
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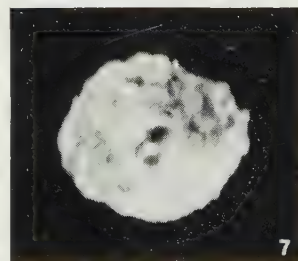
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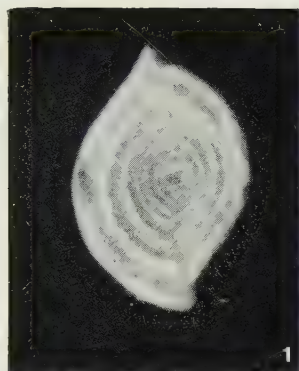
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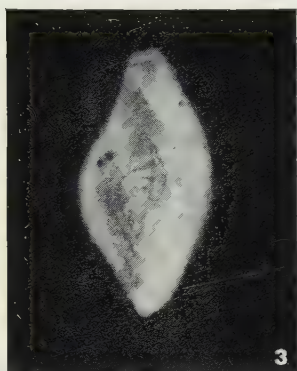
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PLANCHE 3

- Fig. 1, 2. — *Spiroloculina canaliculata* D'ORBIGNY. × 60
Palluau (Vendée).
- Fig. 3, 4. — *Spiroloculina clara* CUSHMAN. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 5, 6. — *Spiroloculina disparilis* TERQUEM (forme juvé-
nile). × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Spiroloculina disparilis* TERQUEM. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10, 11, 12. — *Quinqueloculina angulata* (WILLIAMSON). × 30
La Pressellière (Maine-et-Loire).
- Fig. 13, 14, 15. — *Quinqueloculina bicornis* (WALKER ET JACOB).
× 30
La Pressellière (Maine-et-Loire).
- Fig. 16, 17, 18. — *Quinqueloculina* aff. *carinata* D'ORBIGNY. × 20
Le Temple-du-Cerisier (Ille-et-Vilaine).



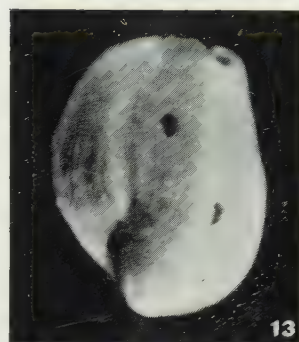
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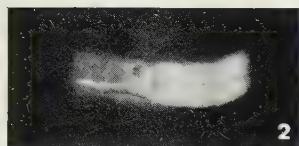
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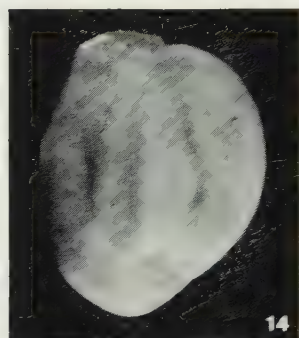
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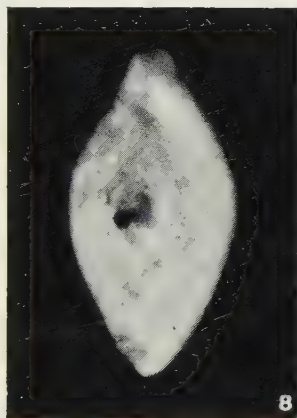
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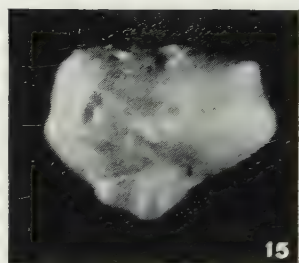
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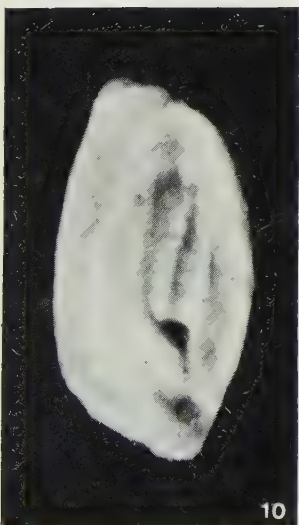
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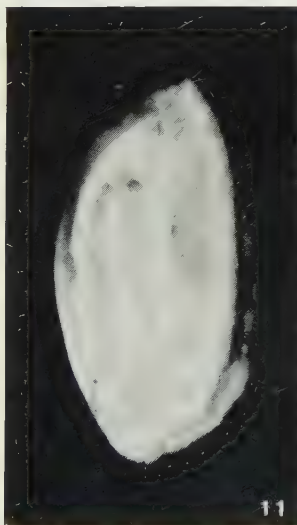
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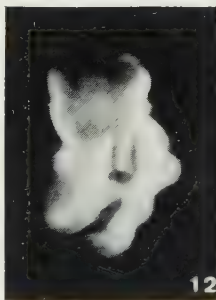
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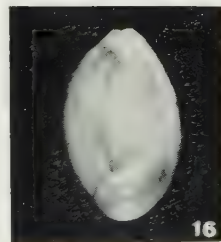
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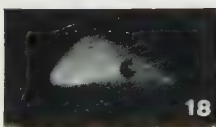
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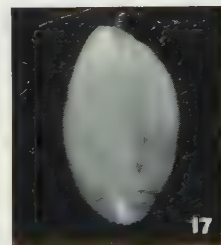
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16



18



17

PLANCHE 4

- Fig. 1, 2, 3. — *Quinqueloculina* aff. *disparilis* D'ORBIGNY. × 30
La Pressellière (Maine-et-Loire).
- Fig. 4, 5, 6, 7, 8. — *Quinqueloculina lecalvezeae* n. sp. Holotype. × 25
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 9, 10, 11. — *Quinqueloculina haidingeri* D'ORBIGNY. × 50
La Pressellière (Maine-et-Loire).
- Fig. 12, 13, 14. — *Quinqueloculina grueti* n. sp. Holotype. × 27
La Pressellière (Maine-et-Loire).
- Fig. 15, 16, 17. — *Quinqueloculina* aff. *ungeriana* D'ORBIGNY. × 60
La Pressellière (Maine-et-Loire).

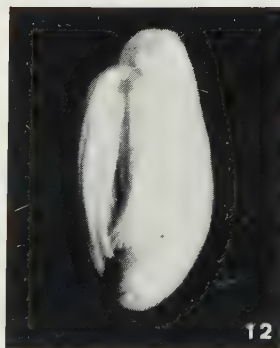
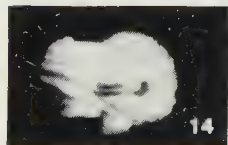
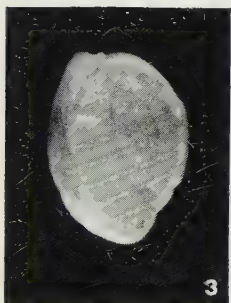
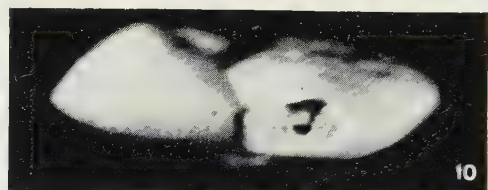
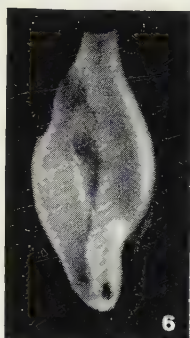
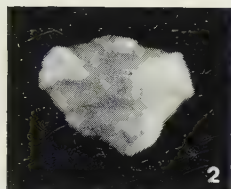
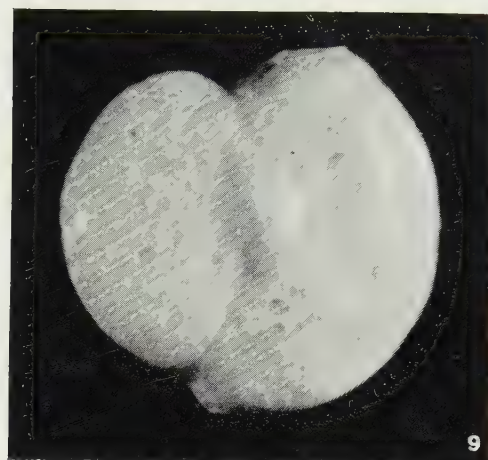
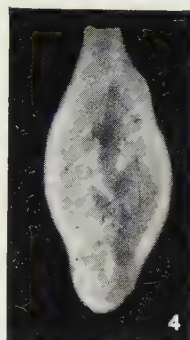
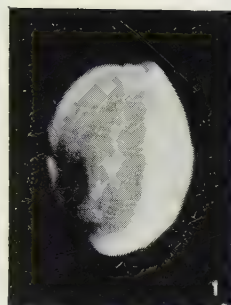


PLANCHE 5

- Fig. 1, 2, 3. — *Quinqueloculina stelligera Schlumbergeri* var. *irregularis*, n. var. $\times 60$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5, 6. — *Quinqueloculina schlumbergeri* (HERON - ALLEN ET EARLAND), forme A. $\times 60$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Quinqueloculina schlumbergeri* (HERON - ALLEN ET EARLAND), forme B. $\times 60$.
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10, 11. — *Quinqueloculina pulchella* (D'ORBIGNY). $\times 60$
La Pressellière (Maine-et-Loire).
- Fig. 12, 13, 14. — *Quinqueloculina rhodiensis* PARKER, forme B. $\times 30$
La Pressellière (Maine-et-Loire).
- Fig. 15, 16, 17. — *Quinqueloculina rhodiensis* PARKER, forme A. $\times 30$
La Pressellière (Maine-et-Loire).
- Fig. 18, 19, 20. — *Quinqueloculina quadrata* NÖRVANG. $\times 50$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 21, 22. — *Quinqueloculina triangularis* D'ORBIGNY. $\times 40$
Falleron (Vendée).

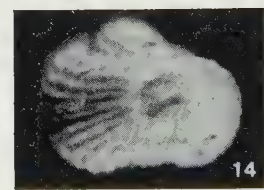
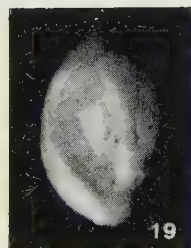
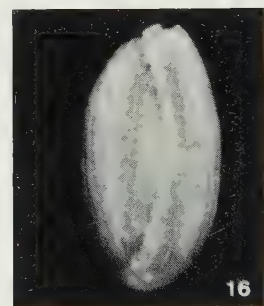
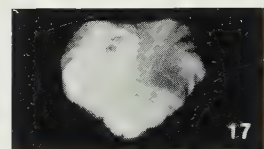
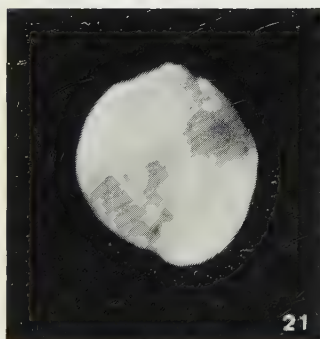
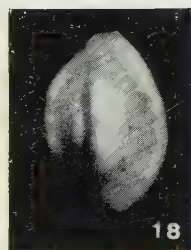
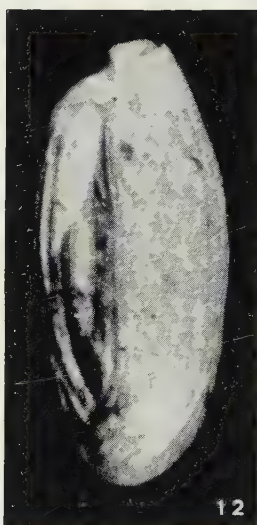
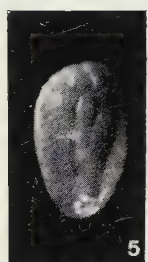
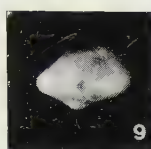
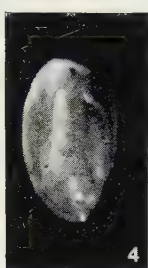
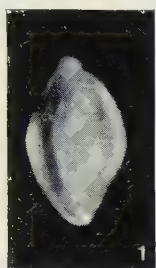


PLANCHE 6

- Fig. 1. — *Quinqueloculina triangularis* D'ORBIGNY. × 40
Falleron (Vendée).
- Fig. 2, 3, 4. — *Quinqueloculina seminula* (LINNÉ). × 60
Apigné (Ille-et-Vilaine).
- Fig. 5, 6, 7. — *Quinqueloculina villafranca* LE CALVEZ. × 40
La Pressellière (Maine-et-Loire).
- Fig. 8, 9, 10. — *Quinqueloculina* sp. 1. × 40
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12, 13. — *Quinqueloculina* sp. 2. × 40
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 14, 15. — *Massilina* aff. *secans* (D'ORBIGNY). × 30
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 16, 17. — *Planomiliola jullieni* (SCHLUMBERGER). × 30
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19. — *Planomiliola polygonia* (SCHLUMBERGER). × 30
Apigné (Ille-et-Vilaine).
- Fig. 20, 21. — *Planomiliola* sp. × 30
Apigné (Ille-et-Vilaine).

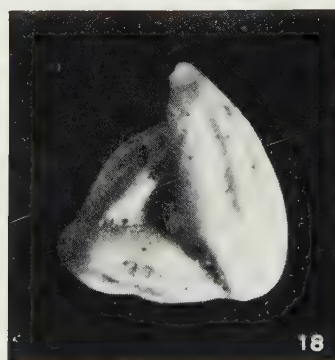
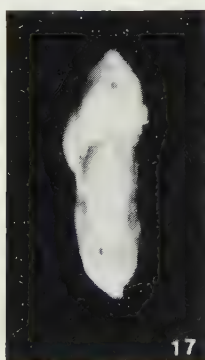
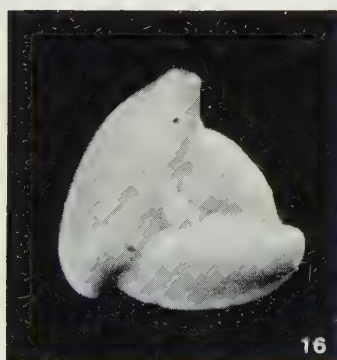
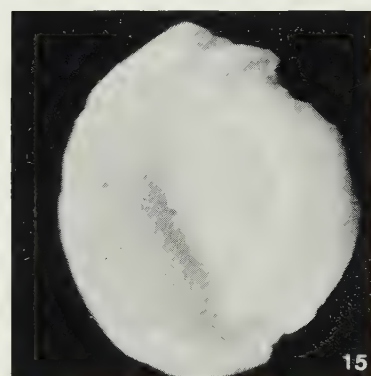
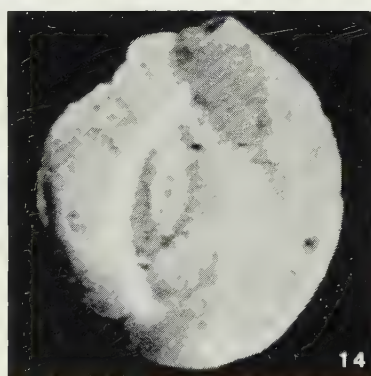
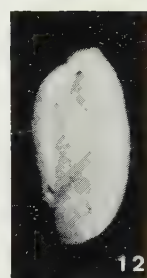
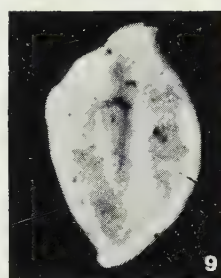
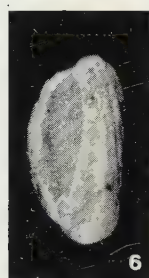
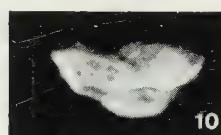
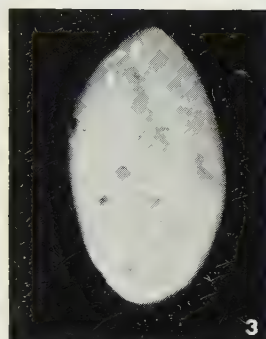
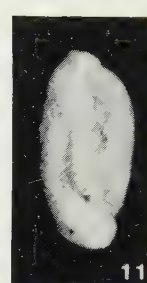
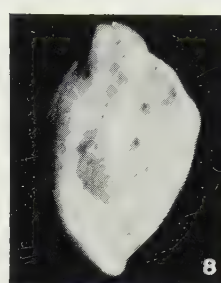
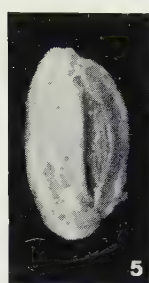
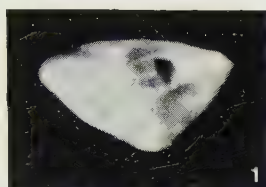


PLANCHE 7

- Fig. 1, 2, 3. — *Quinqueloculina* sp. 3. × 30
La Pressellière (Maine-et-Loire).
- Fig. 4, 5, 6. — *Pyrgo elongata* (D'ORBIGNY). × 30
La Pressellière (Maine-et-Loire).
- Fig. 7, 8, 9. — *Pyrgo* sp. × 30
La Pressellière (Maine-et-Loire).
- Fig. 10, 11. — *Pyrgo elongata* (D'ORBIGNY) var. *quadrata* HERON-
ALLEN ET EARLAND. × 60
Apigné (Ille-et-Vilaine).
- Fig. 12, 13, 14. — *Triloculina trigonula* (LAMARCK). × 30
Palluau (Vendée).

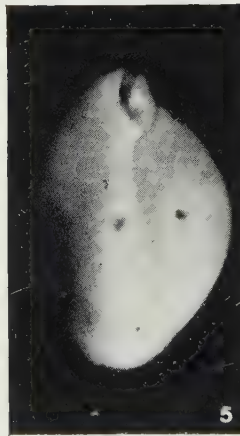
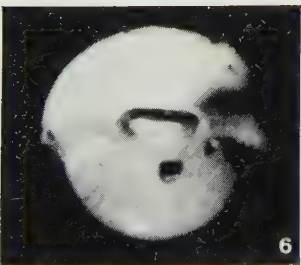
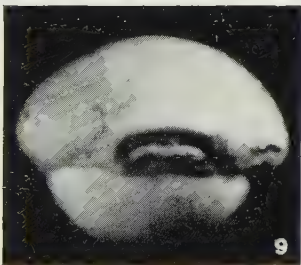
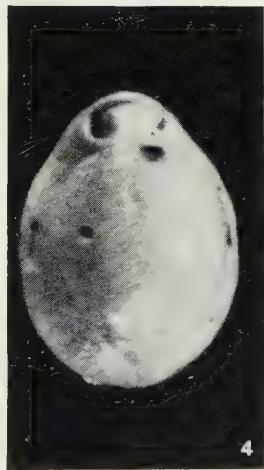
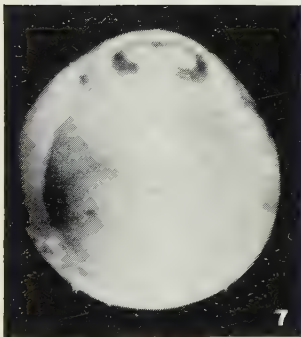
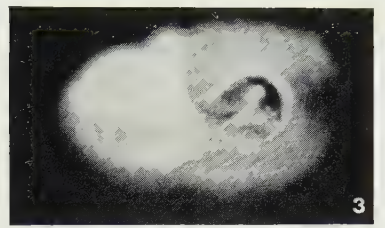


PLANCHE 8

- Fig. 1, 2. — *Nummuloculina circumcostata* n. sp. Holotype.
× 60
La Pressellière (Maine-et-Loire).
- Fig. 3, 4. — *Nummuloculina circumcostata* n. sp. × 60
La Pressellière (Maine-et-Loire).
- Fig. 5, 6. — *Nummuloculina circumcostata* n. sp. × 60
La Pressellière (Maine-et-Loire).
- Fig. 7, 8, 9. — *Biloculinella globula* (BORNEMANN). × 100
La Dixmerie (Loire-Atlantique).
- Fig. 10, 11, 12. — *Triloculina cuneata* KARRER. × 40
Palluau (Vendée).
- Fig. 13, 14. — *Triloculina laevigata* D'ORBIGNY. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 15, 16, 17. — *Triloculina* sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19, 20. — *Sigmoilina miocenica* CUSHMAN. × 60
L'Aubier (Vendée).
- Fig. 21, 22, 23. — *Sigmoilina undulata* n. sp. Holotype. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).

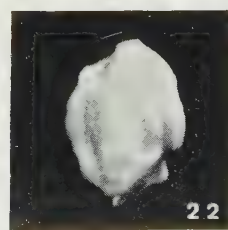
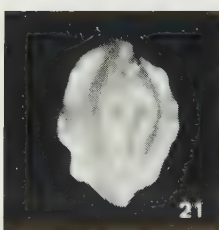
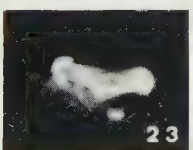
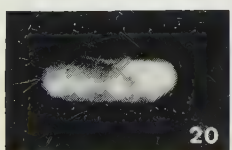
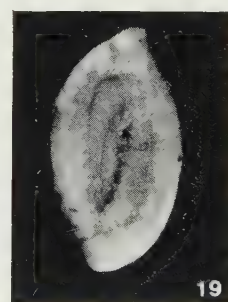
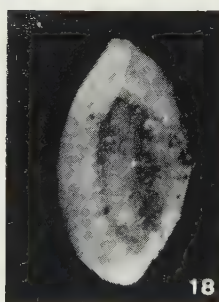
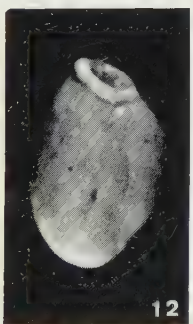
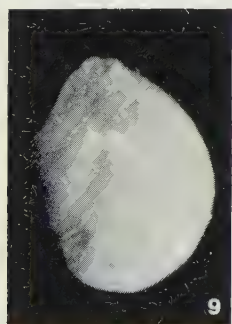
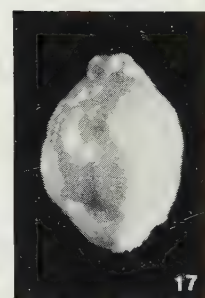
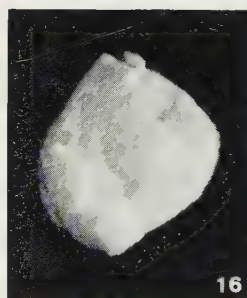
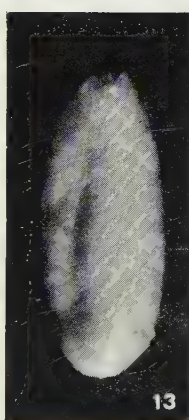
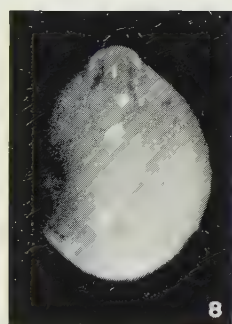
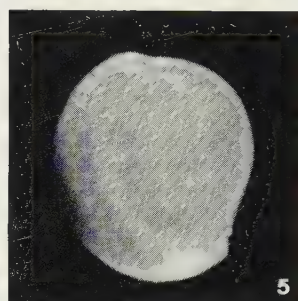
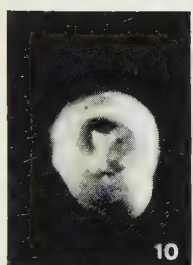
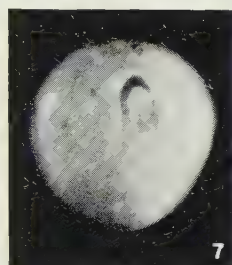
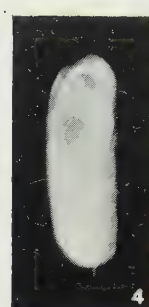
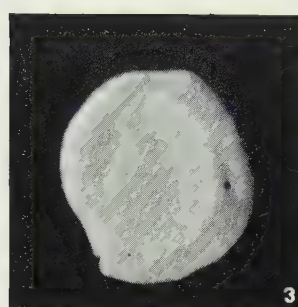
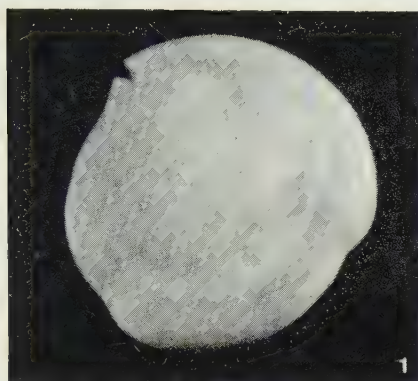


PLANCHE 9

- Fig. 1, 2, 3. — *Miliolinella subrotunda* (MONTAGU). × 50
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5. — *Archaias* ? sp. × 30
Palluau (Vendée).
- Fig. 6, 7. — *Archaias* ? sp. × 30
Palluau (Vendée).
- Fig. 8, 9. — *Lagena pisiformis* n. sp. Holotype. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10. — *Lagena semistriata* WILLIAMSON. × 60
Apigné (Ille-et-Vilaine).
- Fig. 11. — *Lagena laevis* (MONTAGU). × 60
Palluau (Vendée).
- Fig. 12. — *Lagena clavata* D'ORBIGNY. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 13. — *Lagena* sp. 1. × 40
L'Aubier (Vendée).
- Fig. 14. — *Lagena striata* D'ORBIGNY. × 60
Apigné (Ille-et-Vilaine).
- Fig. 15. — *Lagena sulcata* (WALKER ET JACOB). × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 16. — *Lagena flexa* CUSHMAN ET GREY. × 60
Apigné (Ille-et-Vilaine).
- Fig. 17. — *Lagena* aff. *mariae* KARRER. × 60
Falleron (Vendée).
- Fig. 18. — *Lagena hispida* REUSS. × 60
La Pressellière (Maine-et-Loire).
- Fig. 19. — *Lagena* sp. 2. × 60
Apigné (Ille-et-Vilaine).
- Fig. 20, 21, 22. — *Nodosaria pyrula* D'ORBIGNY. × 50
Le Temple-du-Cerisier (Ille-et-Vilaine).

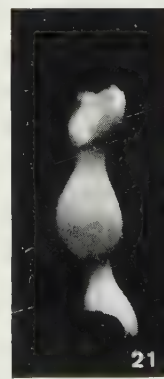
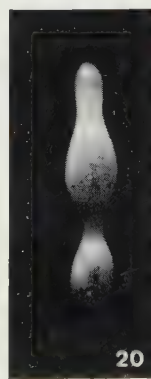
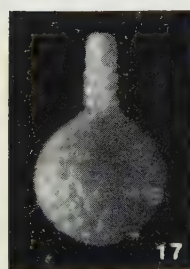
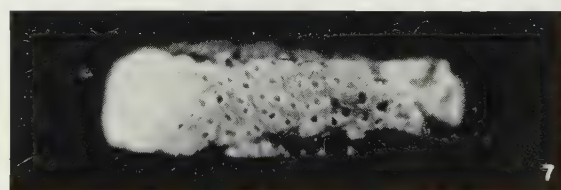
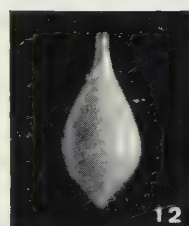
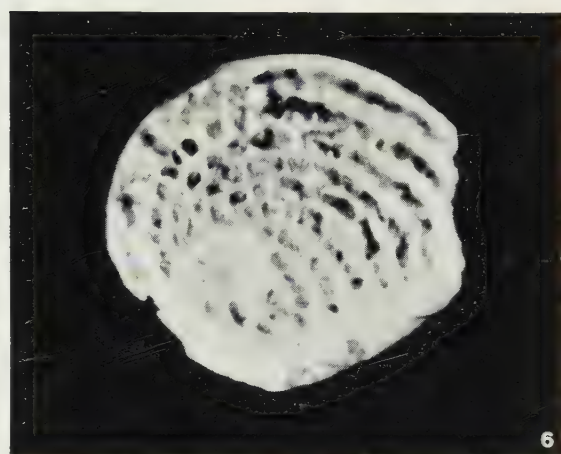
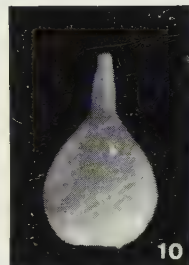
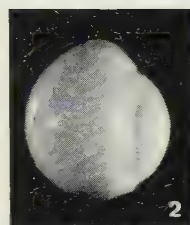
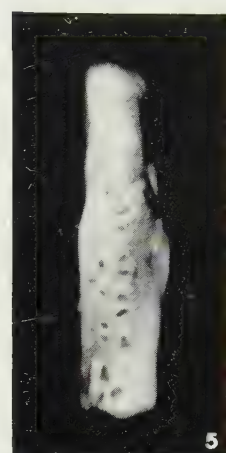
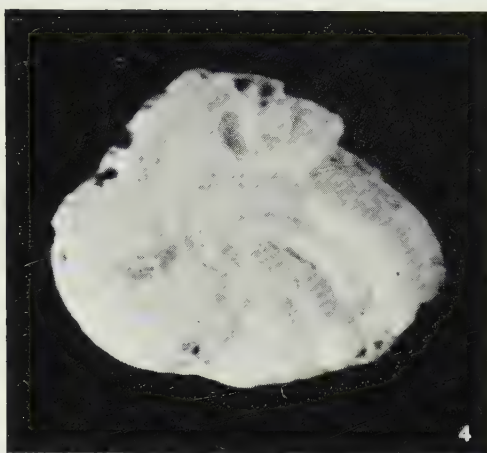
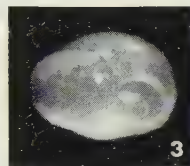
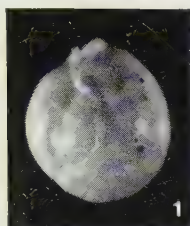


PLANCHE 10

- Fig. 1. — *Lagena gracilis* WILLIAMSON var. *meridionalis*
WIESNER. × 60
Palluau (Vendée).
- Fig. 2. — *Lagena crenata* PARKER ET JONES. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 3. — *Nodosaria proxima* (SILVESTRI). × 60
Palluau (Vendée).
- Fig. 4, 5. — *Lagena trigonomarginata* PARKER ET JONES. × 60
L'Aubinière (Loire-Atlantique).
- Fig. 6, 7. — *Lenticulina* sp. 1. × 50
L'Aubier (Vendée).
- Fig. 8, 9. — *Lenticulina* sp. 2. × 50
Palluau (Vendée).
- Fig. 10, 11. — *Lenticulina curvisepa* (SEGUENZA). × 50
Falleron (Vendée).
- Fig. 12, 13. — *Guttulina* aff. *austriaca* D'ORBIGNY. × 40
Apigné (Ille-et-Vilaine).
- Fig. 14, 15. — *Guttulina problema* D'ORBIGNY. × 50
Palluau (Vendée).
- Fig. 16, 17. — *Globulina rotundata* (BORNEMANN). × 30
Apigné (Ille-et-Vilaine).
- Fig. 18, 19. — *Guttulina roemeri* (REUSS). × 40
Chalennes (Maine-et-Loire).
- Fig. 20, 21, 22, 23. — *Guttulina* aff. *pacifica* (CUSHMAN ET OZAWA) × 40
La Pressellière (Maine-et-Loire).
- Fig. 24, 25. — *Globulina inaequalis* REUSS. × 50
Palluau (Vendée).
- Fig. 26, 27. — *Guttulina lactea* (WALKER ET JACOB) var. *earlandi*
CUSHMAN ET OZAWA. × 50
Falleron (Vendée).

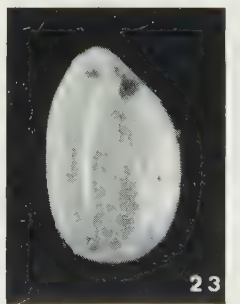
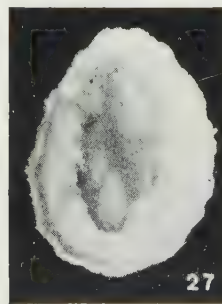
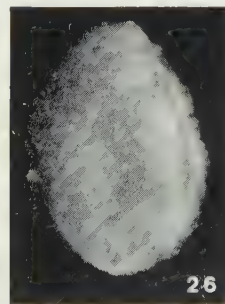
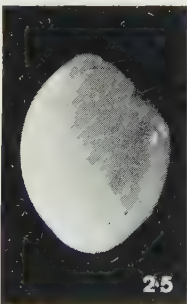
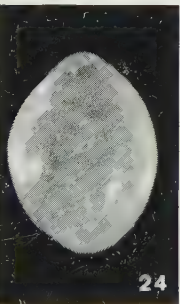
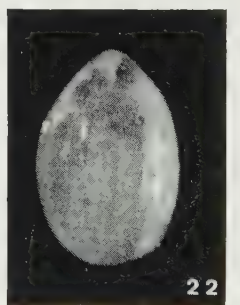
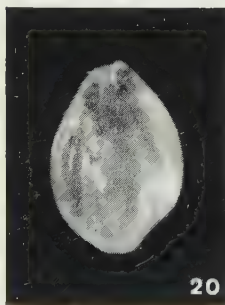
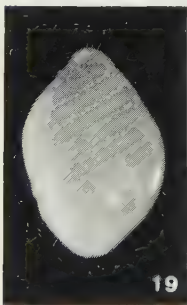
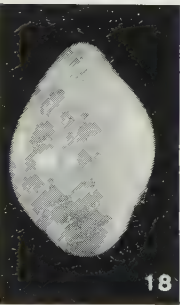
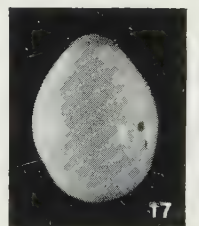
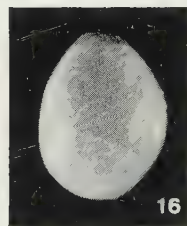
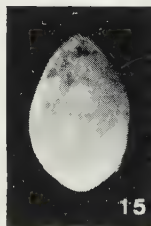
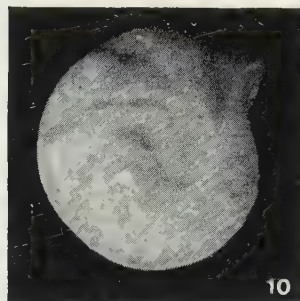
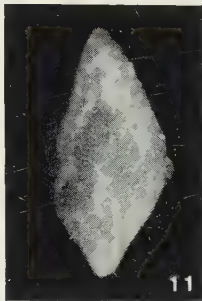
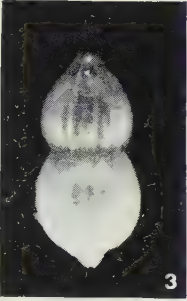
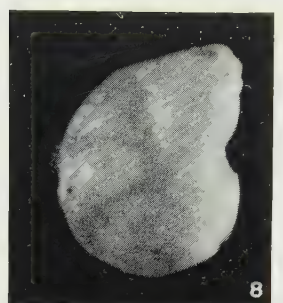
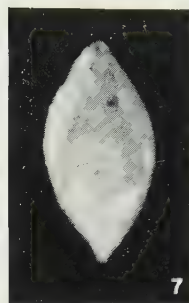
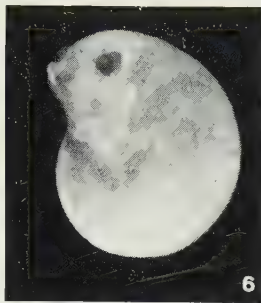
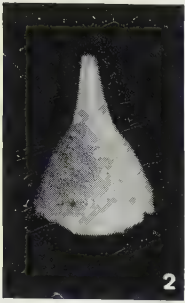


PLANCHE 11

- Fig. 1. — *Globulina gibba* D'ORBIGNY var. *striata* EGGER.
× 50
Palluau (Vendée).
- Fig. 2. — *Globulina gibba* D'ORBIGNY var. *sulcata* D'ORBI-
GNY. × 50
Falleron (Vendée).
- Fig. 3. — *Globulina gibba* D'ORBIGNY var. *tuberculata*
D'ORBIGNY. × 40
La Pressellière (Maine-et-Loire).
- Fig. 4, 5. — *Globulina* sp. × 50
Palluau (Vendée).
- Fig. 6, 7. — *Globulina gibba* D'ORBIGNY var. *fissicosta* CUSH-
MAN ET OZAWA. × 50
Apigné (Ille-et-Vilaine).
- Fig. 8, 9. — *Guttulina caribaea* ? (D'ORBIGNY). × 50
La Pressellière (Maine-et-Loire).
- Fig. 10. — *Polymorphina costata* (ALLIX). × 50
La Pressellière (Maine-et-Loire).
- Fig. 11. — *Globulina gibba* D'ORBIGNY var. *punctata* D'OR-
BIGNY. × 50
L'Aubinière (Loire-Atlantique).
- Fig. 12, 13, 14, 15. — *Pseudopolymorphina jonesi* CUSHMAN ET OZAWA.
× 20
La Pressellière (Maine-et-Loire).
- Fig. 16, 17. — *Polymorphina frondiformis* WOOD (formes A1
et A2). × 20
Chalonnès (Maine-et-Loire).
- Fig. 18. — *Polymorphina frondiformis* WOOD. × 20
La Pressellière (Maine-et-Loire).

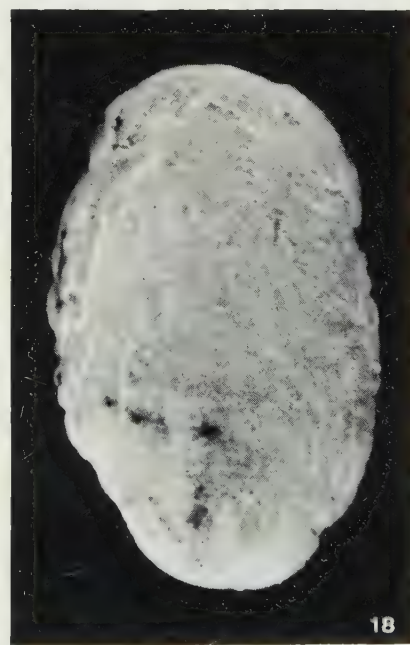
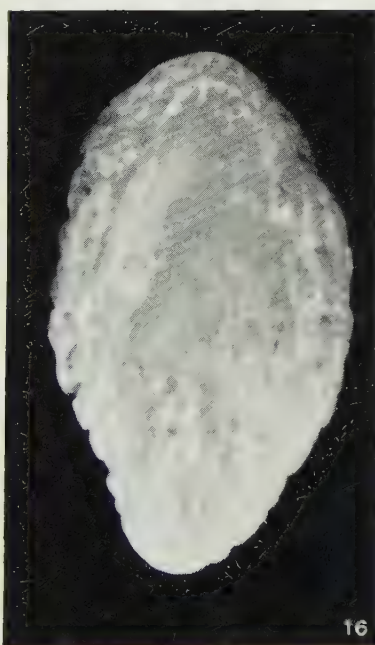
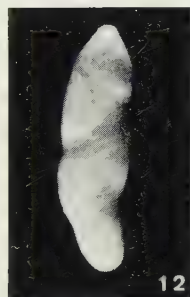
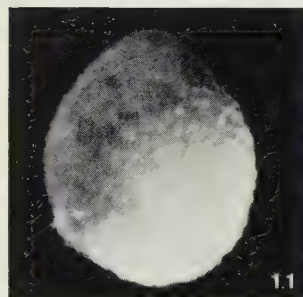
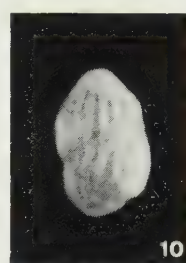
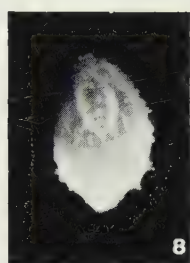
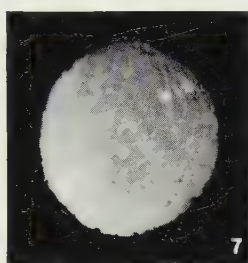
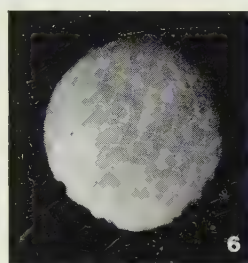
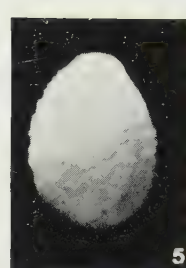
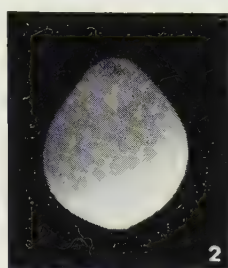
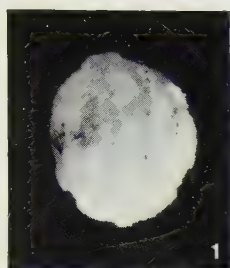


PLANCHE 12

- Fig. 1. — *Polymorphina frondiformis* WOOD. $\times 20$
La Pressellière (Maine-et-Loire).
- Fig. 2, 3, 4. — *Pseudopolymorphina variata* (PARKER, JONES ET
BRADY). $\times 20$
(2, 3) La Pressellière (Maine-et-Loire).
(4) Chalonnes (Maine-et-Loire).
- Fig. 5, 6. — *Pseudopolymorphina soldanii* (D'ORBIGNY). $\times 20$
Falleron (Vendée).
- Fig. 7, 8. — *Pseudopolymorphina* cf. *doanei* (GALLOWAY ET
WISSLER). $\times 20$
La Pressellière (Maine-et-Loire).
- Fig. 9, 10. — *Pseudopolymorphina* sp. $\times 20$
La Pressellière (Maine-et-Loire).
- Fig. 11, 12. — *Sigmomorphina* sp. $\times 50$
Falleron (Vendée).
- Fig. 13, 14. — *Pseudopolymorphina subcylindrica* (HANTKEN).
 $\times 20$
L'Aubier (Vendée).
- Fig. 15, 16. — *Polymorphina subquadrata* n. sp. Holotype. $\times 30$
Falleron (Vendée).

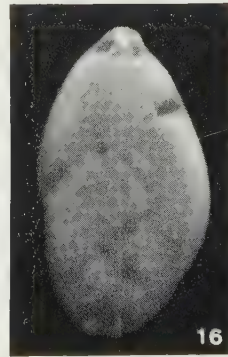
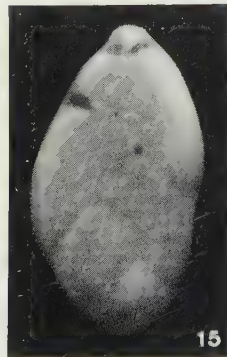
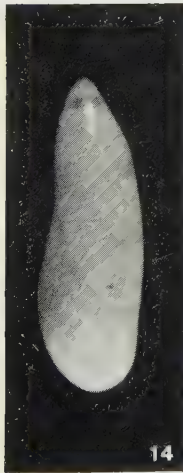
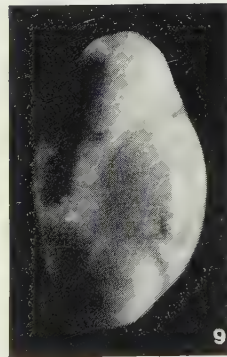
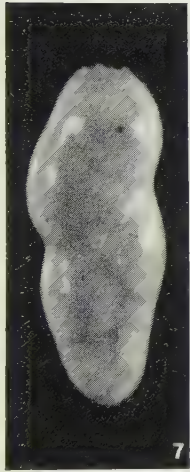
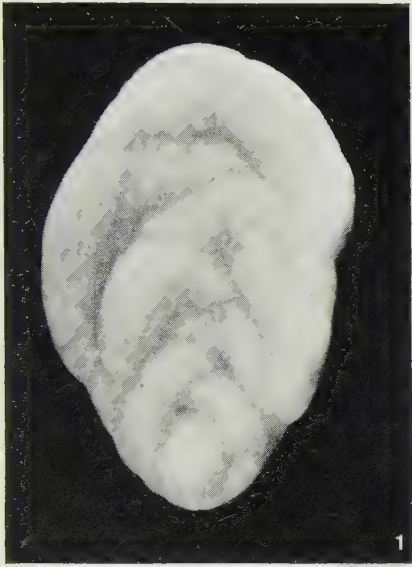


PLANCHE 13

- Fig. 1, 2. — *Polymorphina charlottensis* CUSHMAN
(forme A1). × 20
Falleron (Vendée).
- Fig. 3, 4. — *Polymorphina charlottensis* CUSHMAN
(forme A2). × 20
Chalonnès (Maine-et-Loire).
- Fig. 5, 6. — *Polymorphina fissurata* n. sp. Holotype. × 50
La Pressellière (Maine-et-Loire).
- Fig. 7, 8. — *Polymorphina fissurata* n. sp. Holotype. × 50
La Pressellière (Maine-et-Loire).
- Fig. 9, 10, 11, 12. — *Sigmomorphina flinti* (CUSHMAN). × 20
La Pressellière (Maine-et-Loire).
- Fig. 13, 14. — *Sigmomorphina semitecta* (REUSS) var. *terquemiana* (FORNASINI). × 40
Palluau (Vendée).
- Fig. 15, 16. — *Sigmomorphina* cf. *semitecta* (REUSS). × 50
Apigné (Ille-et-Vilaine).
- Fig. 17. — *Oolina globosa* (MONTAGU). × 70
Apigné (Ille-et-Vilaine).
- Fig. 18, 19, 20. — *Sigmomorphina williamsoni* (TERQUEM). × 40
La Pressellière (Maine-et-Loire).
- Fig. 21. — *Oolina exsculpta* (BRADY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22. — *Oolina lineata* (WILLIAMSON). × 70
La Pressellière (Maine-et-Loire).

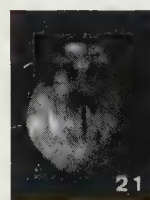
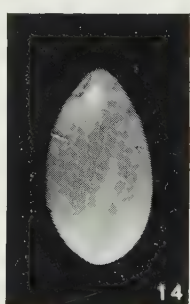
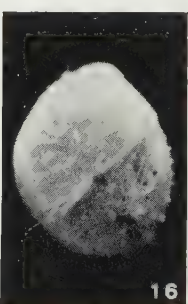
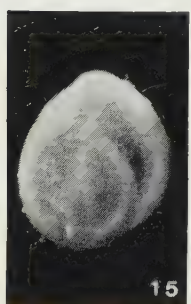
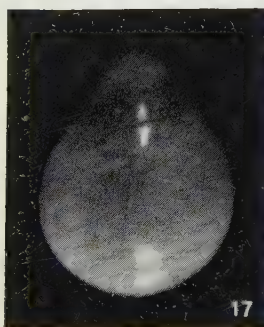
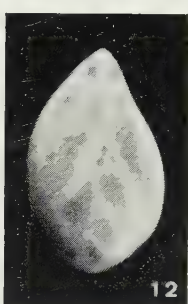
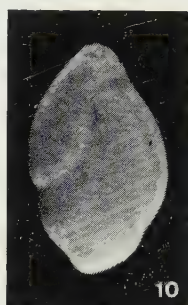
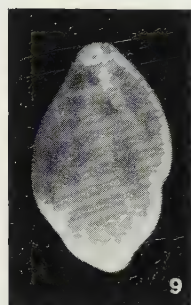
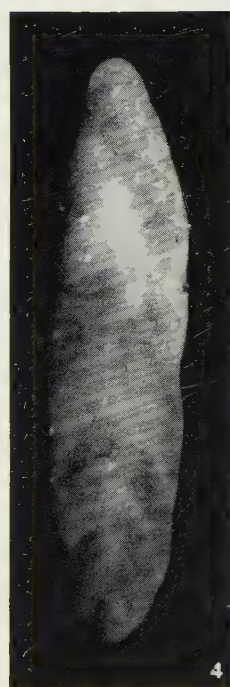
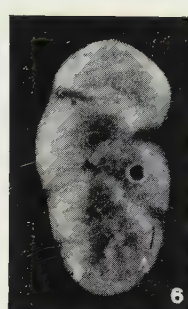


PLANCHE 14

- Fig. 1. — *Oolina acuticosta* (REUSS). × 70
Apigné (Ille-et-Vilaine).
- Fig. 2. — *Oolina hexagona* (WILLIAMSON). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 3. — *Oolina hexagona* (WILLIAMSON) var. *apicicosta*
TEN DAM ET REINHOLD. × 70
Palluau (Vendée).
- Fig. 4, 5. — *Fissurina* sp. 1. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 6. — *Fissurina orbignyana* (SEGUENZA) var. *lacunata*
(BURROWS ET HOLLAND). × 80.
Palluau (Vendée).
- Fig. 7, 8. — *Fissurina fasciata* (EGGER). × 70
Apigné (Ille-et-Vilaine).
- Fig. 9, 10. — *Fissurina annectens* (BURROWS ET HOLLAND).
× 70
Apigné (Ille-et-Vilaine).
- Fig. 11, 12. — *Fissurina* sp. 3. × 80
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 13, 14, 15. — *Fissurina* aff. *crumenata* (CUSHMAN). × 40
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 16, 17. — *Fissurina foraminata* (MATTHES) var. × 70
Chalonnnes (Maine-et-Loire).
- Fig. 18, 19. — *Fissurina milletti* nom. nov. var. *buchneri* n.
var. × 80
Palluau (Vendée).
- Fig. 20, 21. — *Fissurina sacculus* (FORNASINI). × 80
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22, 23. — *Fissurina foraminata* (MATTHES). × 80
L'Aubier (Vendée).
- Fig. 24, 25. — *Fissurina milletti* nom. nov. × 80
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 26, 27. — *Fissurina pseudoorbignyana* (BUCHNER). × 70
Palluau (Vendée).
- Fig. 28, 29. — *Fissurina* sp. 2. × 70
Apigné (Ille-et-Vilaine).

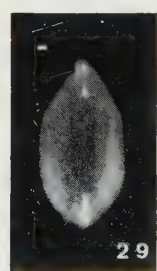
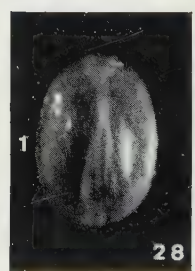
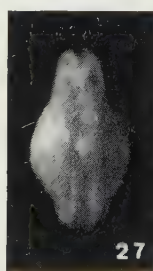
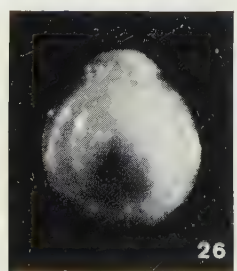
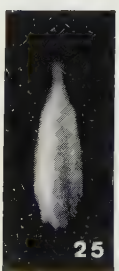
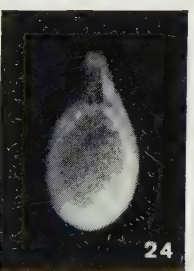
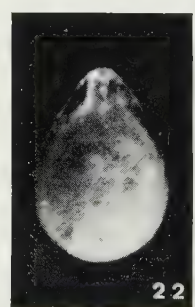
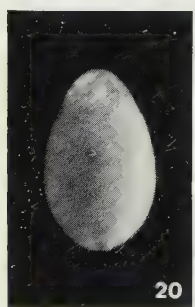
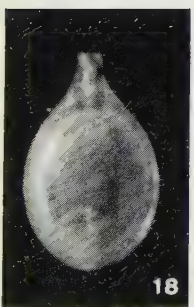
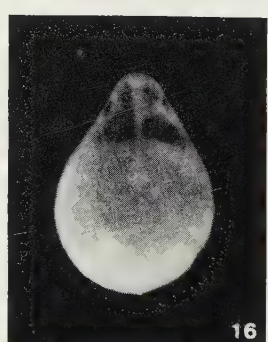
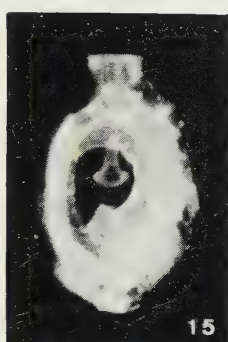
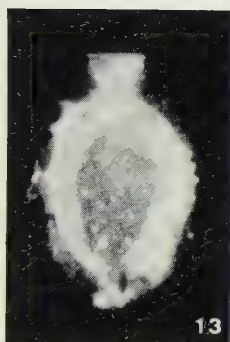
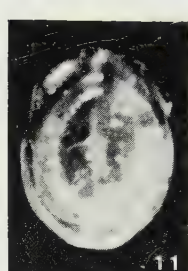
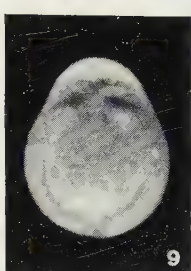
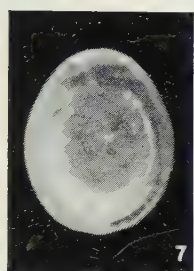
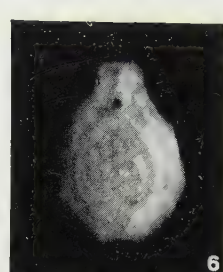
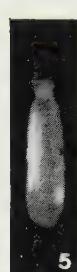
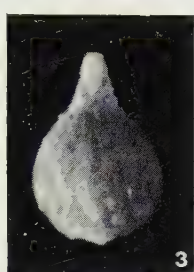
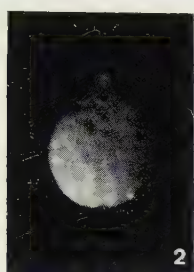
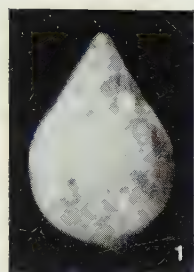




PLANCHE 15

- Fig. 1, 2. — *Fissurina formosa* (SCHWAGER) var. *robusta* n. var. × 80
L'Aubinière (Loire-Atlantique).
- Fig. 3, 4. — *Fissurina lucida* (WILLIAMSON). × 70
Apigné (Ille-et-Vilaine).
- Fig. 5, 9. — *Oolina* sp. × 50
La Pressellière (Maine-et-Loire).
- Fig. 7, 8. — *Fissurina compta* (BUCHNER). × 70
Apigné (Ille-et-Vilaine).
- Fig. 6, 10, 15, 16. — *Fissurina silvestrii* (BUCHNER). × 80.
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12. — *Fissurina* cf. *fallax* (BUCHNER). × 80
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 13, 14. — *Fissurina faba* (BALKWILL ET MILLETT). × 70
Chalennes (Maine-et-Loire).
- Fig. 17, 18, 19, 20. — *Fissurina laureata* (HERON-ALLEN ET EARLAND).
× 60
Apigné (Ille-et-Vilaine).
- Fig. 21. — *Fissurina biapiculata* n. sp. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22, 23, 24, 25. — *Bolivina robusta* BRADY. × 60
Apigné (Ille-et-Vilaine).
- Fig. 26. — *Bolivina pseudoplicata* HERON-ALLEN ET
EARLAND. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 27. — *Bolivina pseudoplicata* HERON-ALLEN ET
EARLAND. × 60
Palluau (Vendée).
- Fig. 28. — *Bolivina* cf. *punctata* D'ORBIGNY. × 60
Palluau (Vendée).
- Fig. 29, 30. — *Bolivina laffitei* n. sp. (29, forme B ; 30, forme A). × 60
Palluau (Vendée).
- Fig. 31, 32. — *Bolivina laffitei* n. sp. (31, forme B ; 32, forme A). × 60
Apigné (Ille-et-Vilaine).
- Fig. 33, 34. — *Bolivina laffitei* n. sp. (33, forme B ; 34, forme A). × 60
Chalennes (Maine-et-Loire).

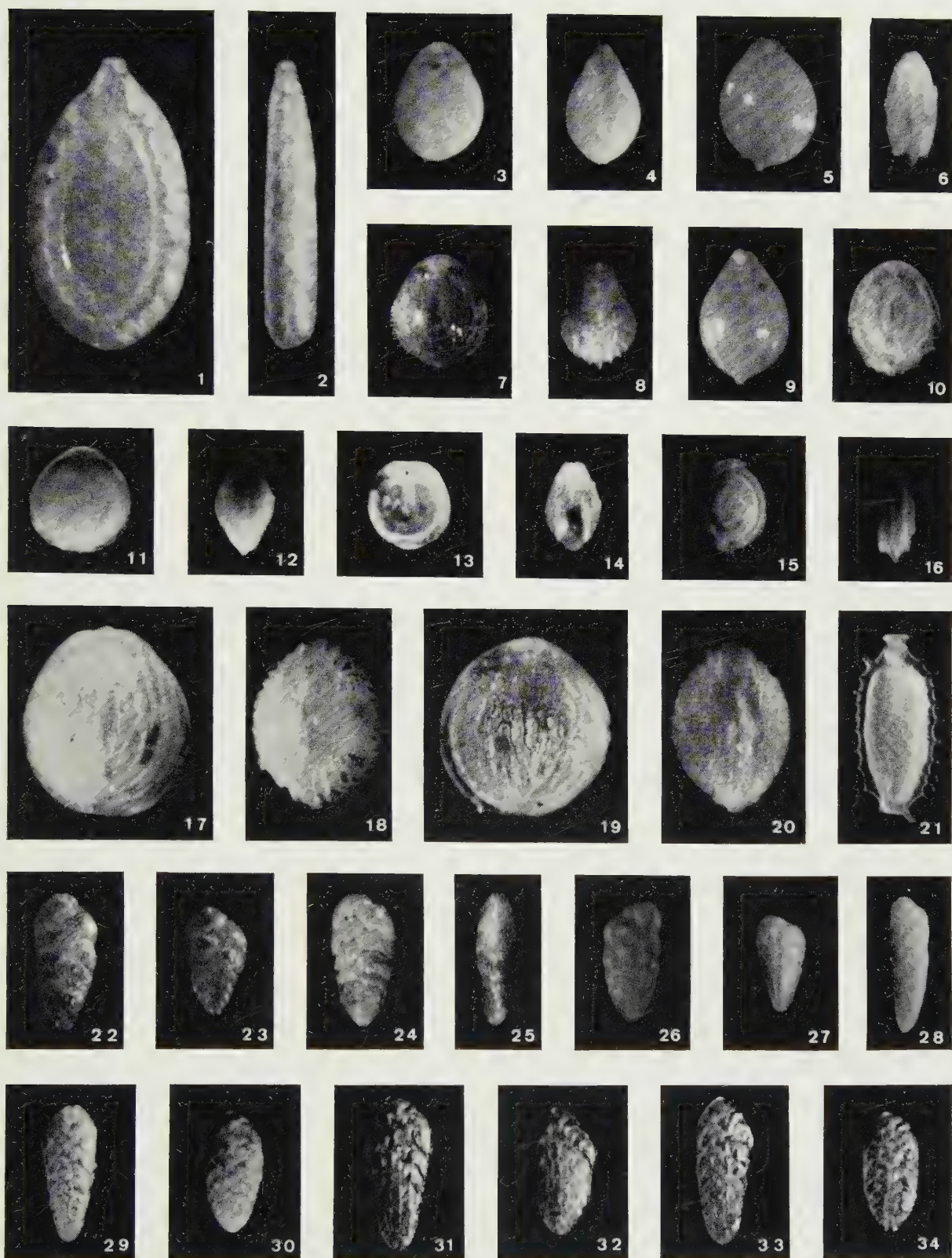


PLANCHE 16

- Fig. 1, 2, 3, 4. — *Bolivina laffittei* n. sp. (1, 2, forme B ; 3, 4, forme A). $\times 60$.
L'Aubinière (Loire-Atlantique).
- Fig. 5, 6. — *Bolivina laffittei* n. sp. (5, forme B ; 6, forme A).
 $\times 60$.
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 10. — *Bolivina laffittei* n. sp. (7, forme B ; 10, forme A).
 $\times 60$
L'Aubier (Vendée).
- Fig. 8, 9. — *Bolivina laffittei* n. sp. (8, forme B ; 9, forme A).
 $\times 60$
L'Aubinière (Loire-Atlantique).
- Fig. 11, 12, 13, 14. — *Bolivina spathulata* (WILLIAMSON) (11, 12, forme B ; 13, 14, forme A). $\times 60$
Palluau (Vendée).
- Fig. 15, 16. — *Bolivina spathulata* (WILLIAMSON) (15, forme B ; 16, forme A). $\times 60$
L'Aubinière (Loire-Atlantique).
- Fig. 17. — *Bolivina spathulata* (WILLIAMSON) (forme B).
 $\times 60$
La Pressellière (Maine-et-Loire).
- Fig. 18, 19. — *Bolivina gibbera* MILLETT. $\times 80$
Apigné (Ille-et-Vilaine).
- Fig. 20. — *Bulimina elongata* D'ORBIGNY var. *tenera* REUSS.
 $\times 100$
Apigné (Ille-et-Vilaine).
- Fig. 21. — *Bulimina* cf. *costata* D'ORBIGNY. $\times 60$
Palluau (Vendée).
- Fig. 22. — *Bulimina* sp. $\times 100$
Palluau (Vendée).
- Fig. 23, 24. — *Buliminella elegantissima* (D'ORBIGNY). $\times 100$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 25, 26, 27. — *Reussella limboperforata* n. sp. Holotype. $\times 60$
Palluau (Vendée).
- Fig. 28, 29. — *Reussella limboperforata* n. sp. $\times 60$
Palluau (Vendée).
- Fig. 30. — *Trifarina (Angulogerina) angulosa*. $\times 80$
Palluau (Vendée).
- Fig. 31. — *Trifarina bradyi* CUSHMAN. $\times 80$
La Pressellière (Maine-et-Loire).
- Fig. 32, 33. — *Trifarina (Angulogerina) hughesi* (GALLOWAY ET
WISSLER). $\times 80$
Palluau (Vendée).
- Fig. 34. — *Rectobolivina* sp. $\times 60$
Falleron (Vendée).



PLANCHE 17

- Fig. 1, 2. — *Trifarina (Angulogerina) hughesi* (GALLOWAY ET
WISSLER). × 80
Palluau (Vendée).
- Fig. 3. — *Bulimina elongata* D'ORBIGNY. × 60
Palluau (Vendée).
- Fig. 4. — *Bolivina* sp. 1. × 60
Palluau (Vendée).
- Fig. 5, 6, 7. — *Bolivina* sp. 2. × 60
La Pressellière (Maine-et-Loire).
- Fig. 8, 9, 10. — *Discorbis mira* CUSHMAN. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12, 13. — *Discorbitura cushmani* n. sp. Holotype
(forme A). × 70
Palluau (Vendée).
- Fig. 14, 15. — *Bolivina laffittei* n. sp. Holotype (forme B).
× 100
L'Aubinière (Loire-Atlantique)
- Fig. 16, 17, 18. — *Discorbitura cushmani* n. sp. Holotype
(forme B). × 70
Palluau (Vendée).
- Fig. 19, 20, 21. — *Discorbitura cushmani* n. sp. × 60
Palluau (Vendée).
- Fig. 22, 23, 24. — *Discorbitura granuloumbilicata* VAN VOORTHUY-
SEN. × 70
Palluau (Vendée).

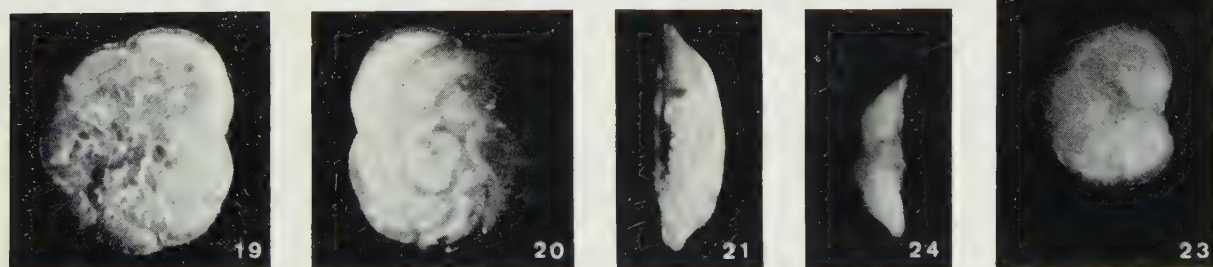
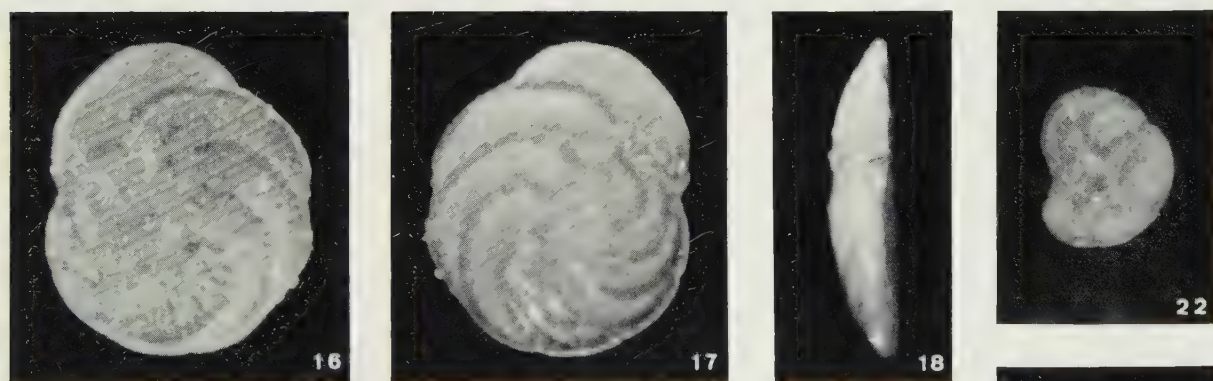
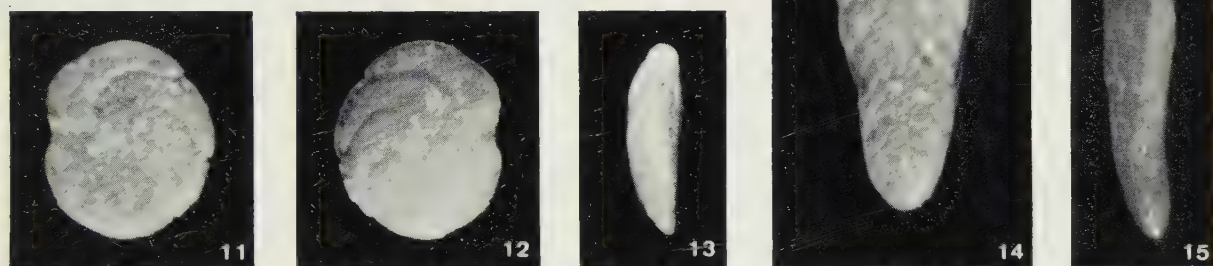
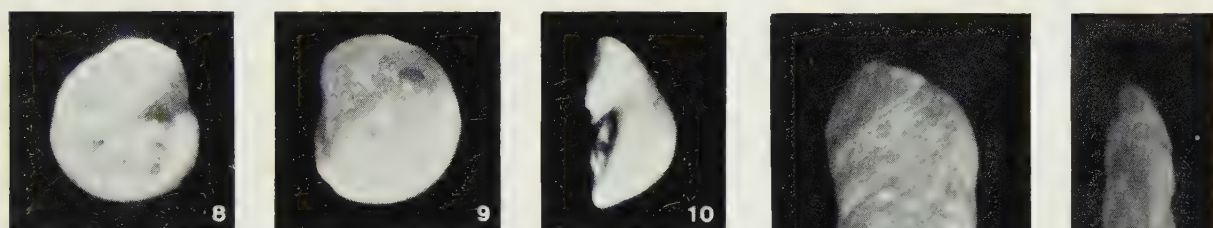
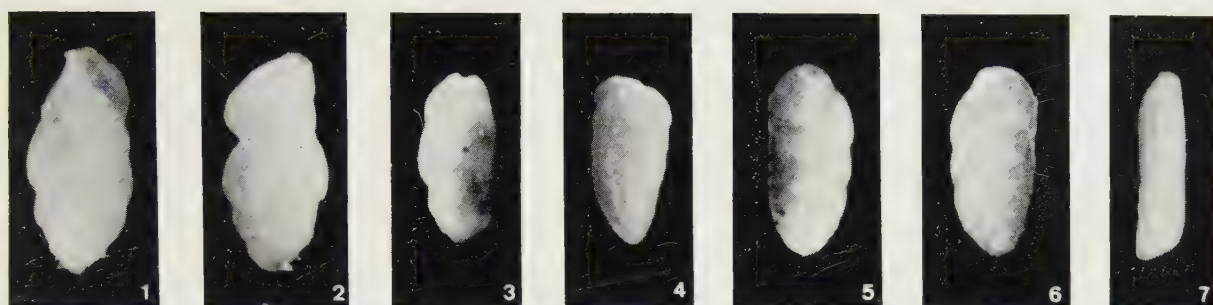


PLANCHE 18

- Fig. 1, 2. — *Bolivina laffittei* n. sp. Holotype (forme A).
× 100
L'Aubinière (Loire-Atlantique).
- Fig. 3, 4, 5. — *Buccella nuda* n. sp. Holotype. × 100
Palluau (Vendée).
- Fig. 6, 7, 8. — *Buccella nuda* n. sp. × 100
Palluau (Vendée).
- Fig. 9, 10, 11. — *Buccella frigida* (CUSHMAN) var. *granulata* (DI
NAPOLI). × 70
Palluau (Vendée).
- Fig. 12, 13, 14. — *Discorbis* aff. *uhlgi* (GRZYBOWSKI). × 60
La Pressellière (Maine-et-Loire).
- Fig. 15, 16, 17. — *Discorbitura sculpturata* n. sp. Holotype. × 60
L'Aubier (Vendée).
- Fig. 18, 19, 20. — *Discorbitura sculpturata* n. sp. × 70
Palluau (Vendée).

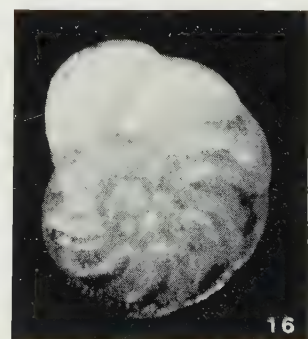
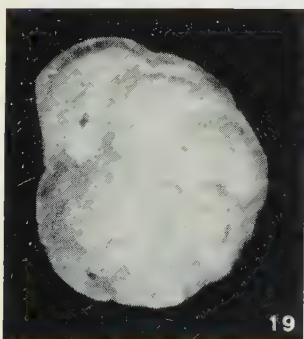
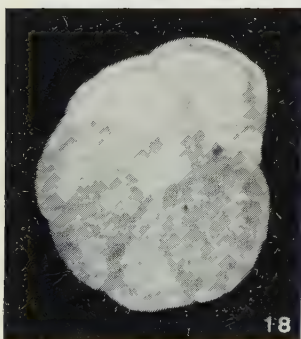
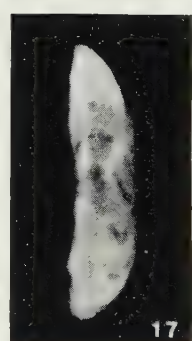
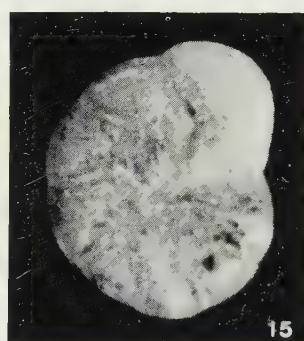
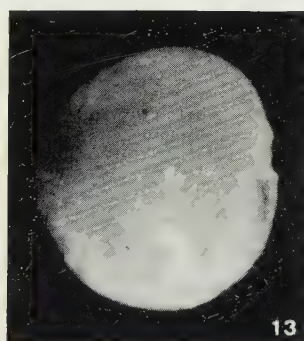
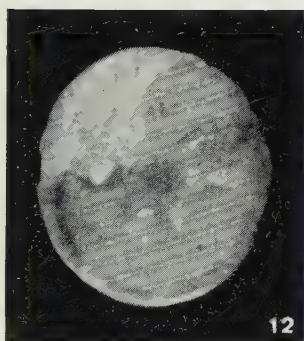
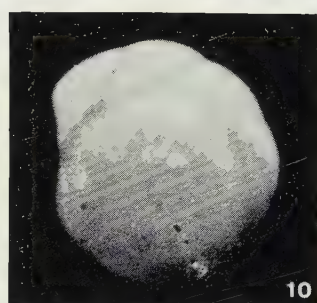
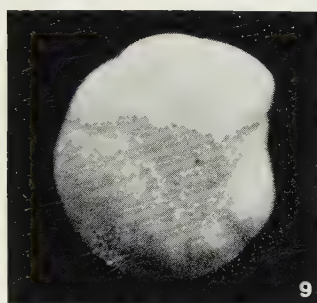
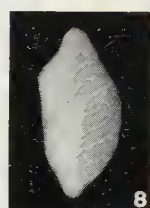
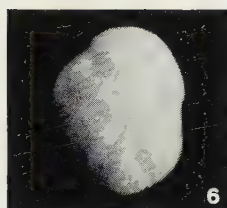
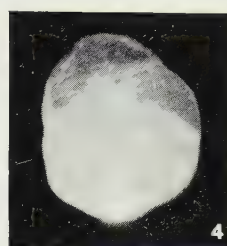
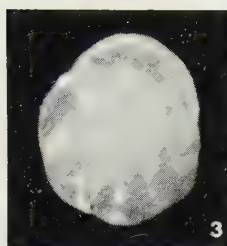
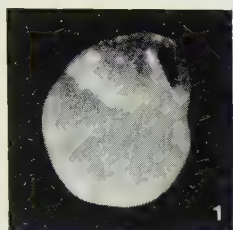
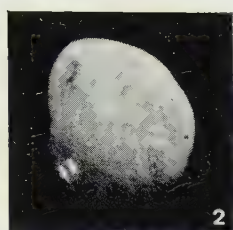


PLANCHE 19

- Fig. 1, 2, 3. — *Epistominella irregularis* n. sp. Holotype. × 70
Palluau (Vendée).
- Fig. 4, 5, 6. — *Neoconorbina caveti* n. sp. Holotype. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Rosalina globularis* D'ORBIGNY var. *bradyi*
(CUSHMAN). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10, 11, 12. — *Neoconorbina milletti* (WRIGHT). × 70
Apigné (Ille-et-Vilaine).
- Fig. 13, 14, 15. — *Epistominella irregularis* n. sp. × 70
Palluau (Vendée).
- Fig. 16, 17, 18. — *Rosalina nitida* (WILLIAMSON). × 70
Palluau (Vendée).
- Fig. 19, 20, 21. — *Noeconorbina orbicularis* (TERQUEM). × 70
Palluau (Vendée).
- Fig. 22, 23. — *Rosalina* aff. *subglobosa* (CUSHMAN). × 70
Falleron (Vendée).



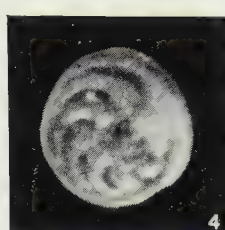
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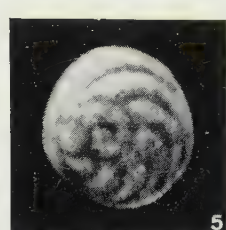
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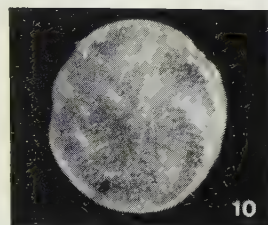
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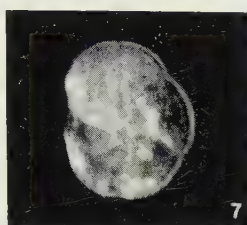
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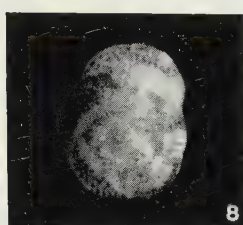
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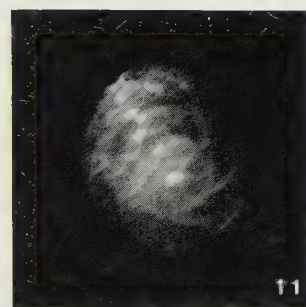
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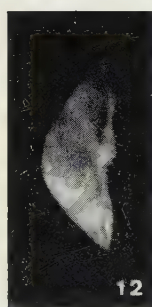
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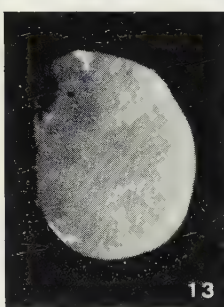
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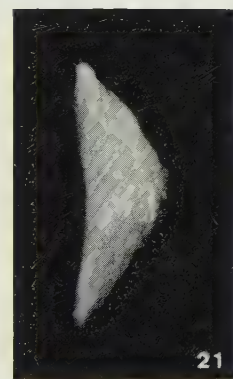
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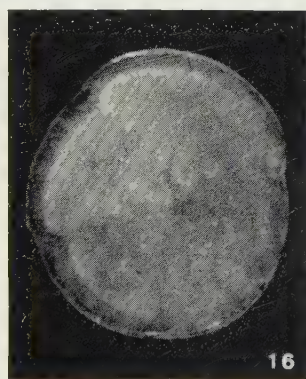
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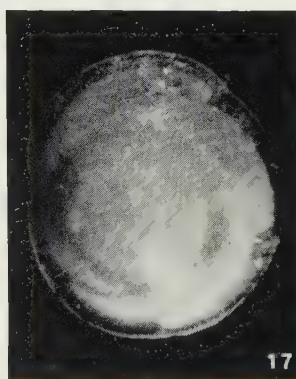
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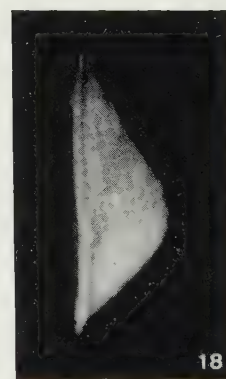
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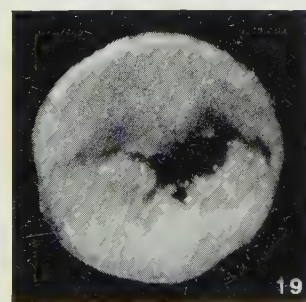
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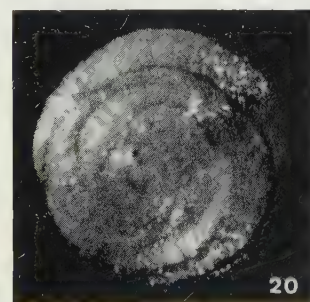
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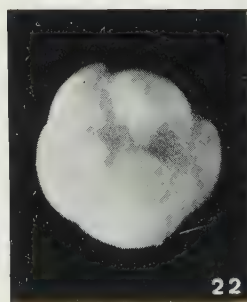
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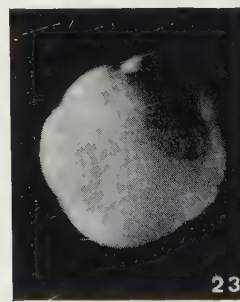
19



20



22



23

PLANCHE 20

- Fig. 1, 2, 3, 4. — *Rosalina* aff. *subglobosa* (CUSHMAN). × 70
Falleron (Vendée).
- Fig. 5, 6, 7. — *Rosalina simplex* D'ORBIGNY. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 8, 9, 10. — *Rosalina globularis* D'ORBIGNY. × 70
Palluau (Vendée).
- Fig. 11, 12, 13. — *Rosalina granulosa* n. sp. × 70
Palluau (Vendée).
- Fig. 14, 15, 16. — *Rosalina nitida* (WILLIAMSON). × 70
L'Aubinière (Loire-Atlantique).
- Fig. 17, 18, 19. — *Rosalina* sp. × 50
Falleron (Vendée).
- Fig. 20, 21. — *Rosalina granulosa* n. sp. Holotype. × 70
La Pressellière (Maine-et-Loire).

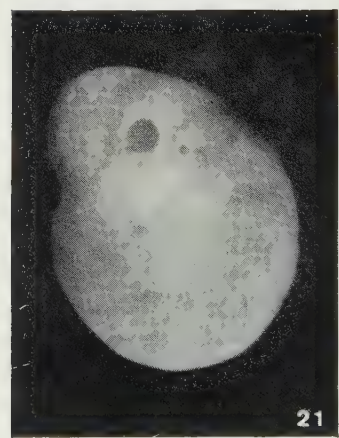
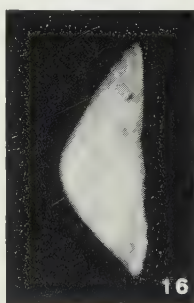
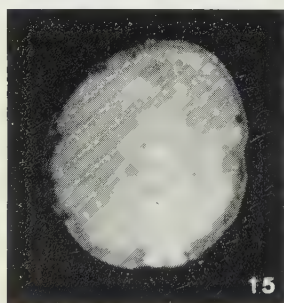
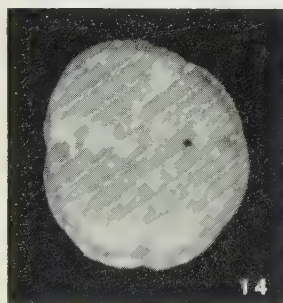
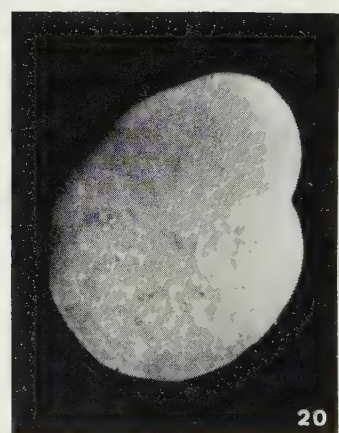
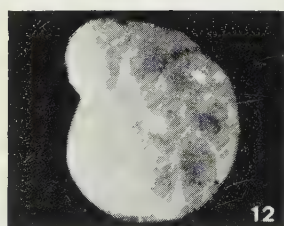
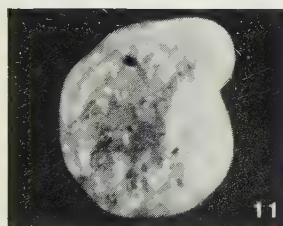
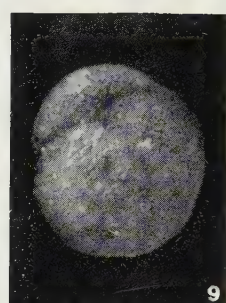
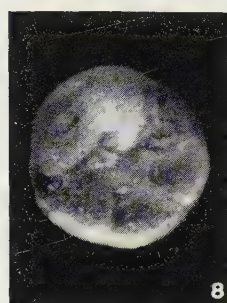
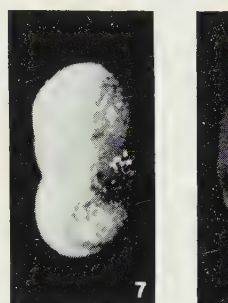
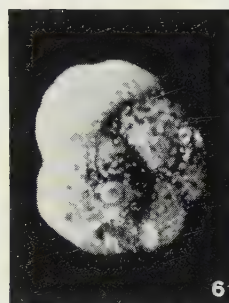
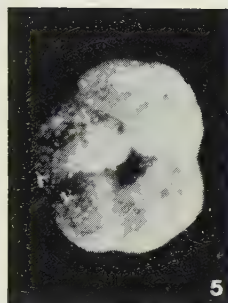
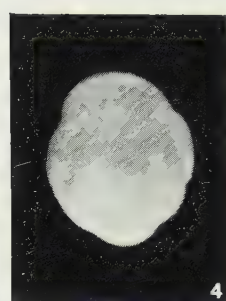
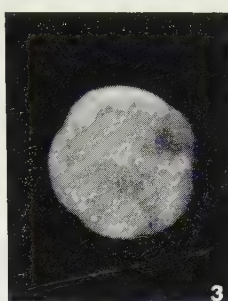
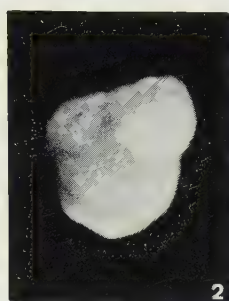
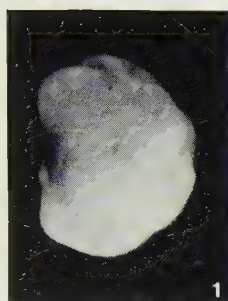


PLANCHE 21

- Fig. 1. — *Rosalina granulosa* n. sp. Holotype. × 70
La Pressellière (Maine-et-Loire).
- Fig. 2, 3, 4. — *Rosalina* sp. × 70
Palluau (Vendée).
- Fig. 5, 6, 7. — *Pseudopatellinoides perplexum* n. sp. Holotype
(forme B). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 8, 9, 10. — *Rosalina latiumblicata* n. sp. Holotype. × 150
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12, 13. — *Rosalina latiumblicata* n. sp. × 150
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 14, 15, 16. — *Pseudopatellinoides perplexum* n. sp. Holotype
(forme A). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 17, 18, 19. — *Pseudopatellinoides perforatum* n. sp. Holotype.
× 70
Falleron (Vendée).
- Fig. 20, 21, 22. — *Cancris auriculus* (FICHEL ET MOLL). × 70
Palluau (Vendée).
- Fig. 23, 24, 25. — *Heronallenia lingulata* (BURROWS ET HOLLAND).
× 100
Palluau (Vendée).



PLANCHE 22

- Fig. 1, 2, 3. — *Glabratella opercularis* (D'ORBIGNY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5, 6. — *Glabratella* aff. *imperatoria* (D'ORBIGNY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8. — *Glabratella* sp. 1. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 9, 10, 11. — *Cancris sagrum* (D'ORBIGNY). × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 12, 13, 14. — *Glabratella sidebottomi* nom. nov. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 15, 16, 17. — *Glabratella sidebottomi* nom. nov. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19, 20. — *Glabratella sidebottomi* nom. nov. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 21, 22, 23. — *Glabratella* sp. 2. × 100
Palluau (Vendée).
- Fig. 24, 25. — *Glabratella patelliformis* (BRADY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).

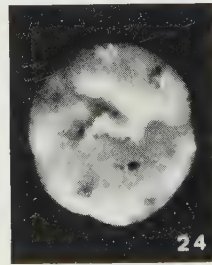
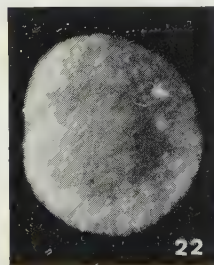
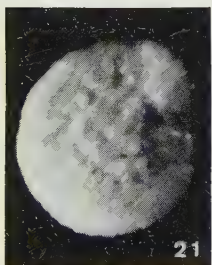
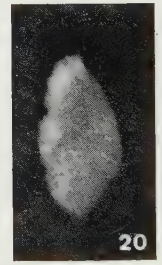
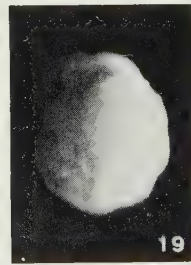
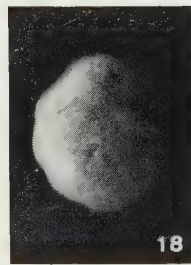
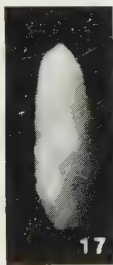
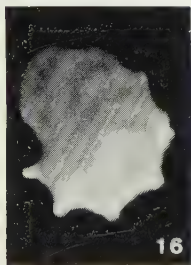
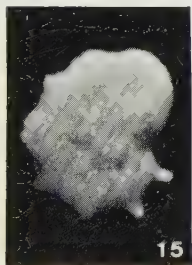
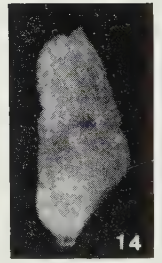
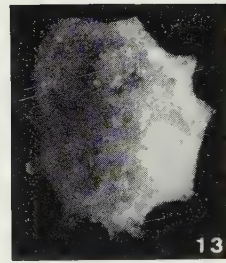
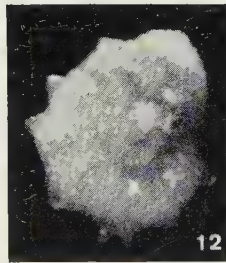
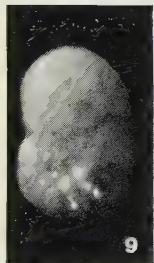
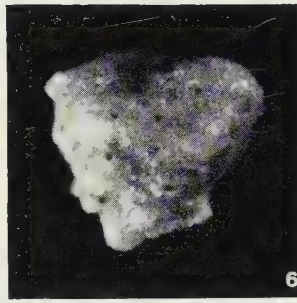
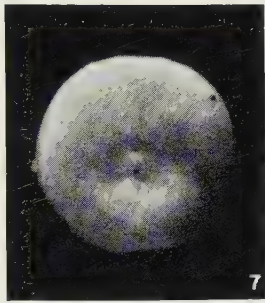
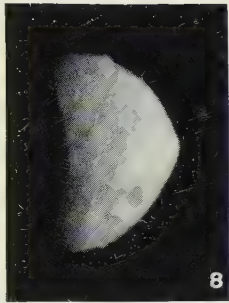
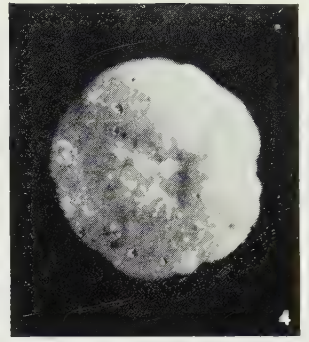
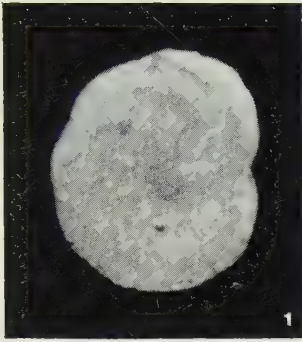
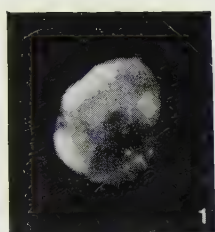
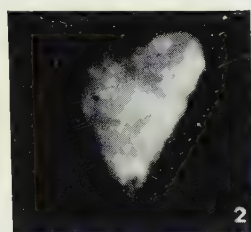


PLANCHE 23

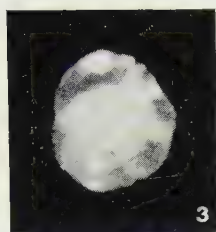
- Fig. 1, 2. — *Glabratella erecta* (SIDEBOTTOM). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 3, 4, 5. — *Glabratella globosa* (SIDEBOTTOM). × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 6, 7, 8. — *Planodiscorbis* sp. × 70
L'Aubinière (Loire-Atlantique).
- Fig. 9, 10, 11. — *Planodiscorbis* sp. × 70
L'Aubinière (Loire-Atlantique).
- Fig. 12, 13, 14. — *Siphonina chauveli* n. sp. Holotype. × 100
La Pressellière (Maine-et-Loire).
- Fig. 15, 16, 17. — *Pseudoeponides pseudotepidus* (VAN VOORTHUY-
SEN). × 70
Palluau (Vendée).
- Fig. 18, 19, 20. — *Pseudoeponides pseudotepidus* (VAN VOORTHUY-
SEN). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 21, 22. — *Pseudoeponides pseudotepidus* (VAN VOORTHUY-
SEN). × 70
Palluau (Vendée).



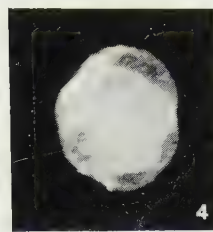
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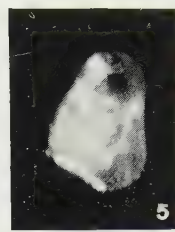
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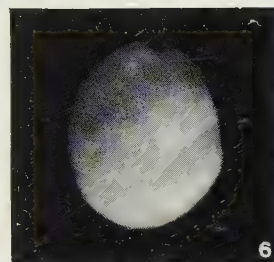
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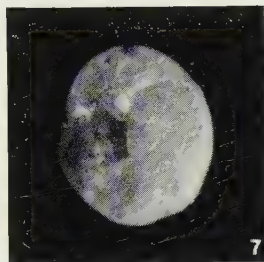
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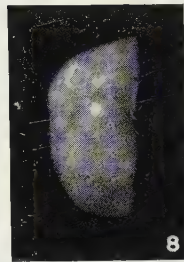
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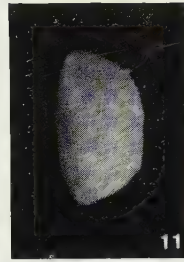
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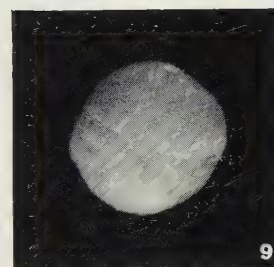
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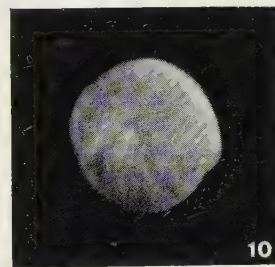
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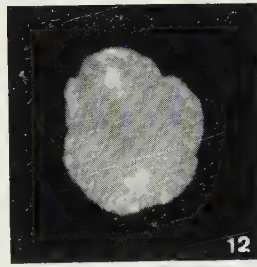
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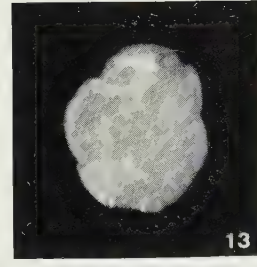
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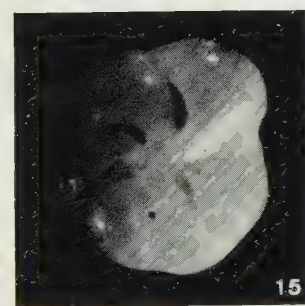
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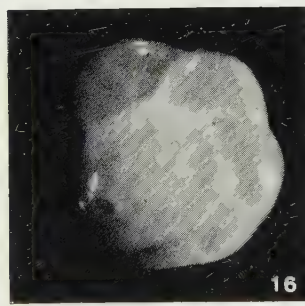
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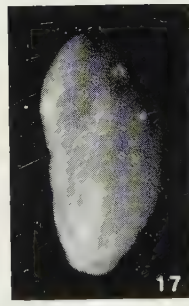
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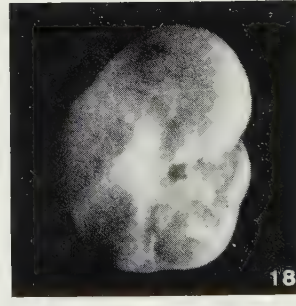
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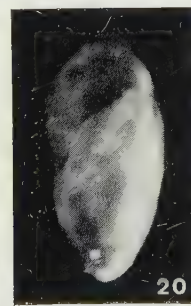
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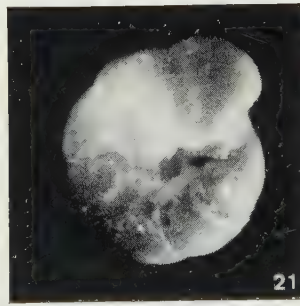
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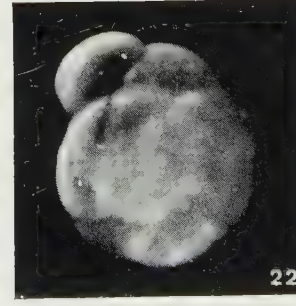
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22

PLANCHE 24

- Fig. 1, 2, 3. — *Pseudoeponides pseudotepidus* (VAN VOORTHUYSEN). $\times 70$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5, 6. — *Pseudoeponides pseudotepidus* (VAN VOORTHUYSEN). $\times 70$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Pseudoeponides* sp. $\times 70$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10. — *Pseudoeponides* sp. $\times 70$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12, 13. — *Spirillina denticulogranulata* CHAPMAN. $\times 60$
L'Aubinière (Loire-Atlantique).
- Fig. 14, 15, 16. — *Spirillina* sp. 1. $\times 70$
Apigné (Ille-et-Vilaine).
- Fig. 17, 18, 19. — *Spirillina* sp. 2. $\times 70$
Palluau (Vendée).
- Fig. 20, 21, 22. — *Spirillina lucida* SEIBOLD. $\times 100$
La Presselière (Maine-et-Loire).
- Fig. 23, 24, 25. — *Patellinoides conica* (HERON-ALLEN ET EARLAND).
 $\times 100$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 26, 27, 28. — *Ammonia limbatobeccarii* MAC LEAN. $\times 30$
Chalonnès (Maine-et-Loire).
- Fig. 29, 30, 31. — *Ammonia beccarii* (LINNÉ). $\times 50$
Palluau (Vendée).

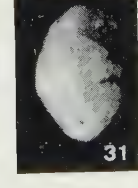
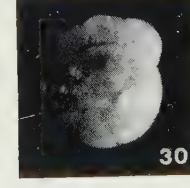
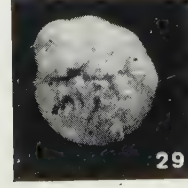
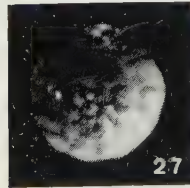
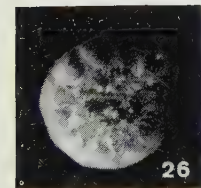
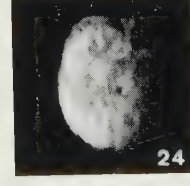
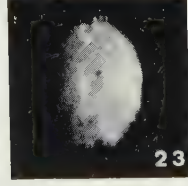
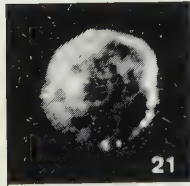
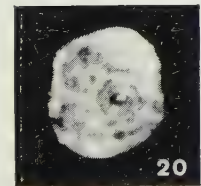
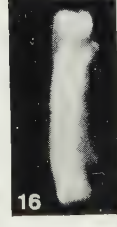
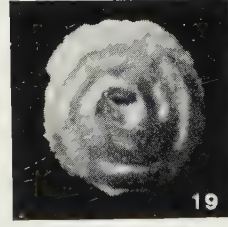
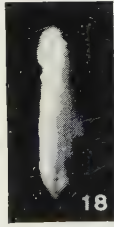
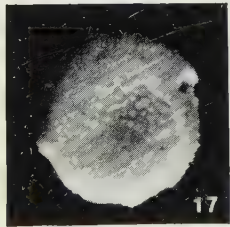
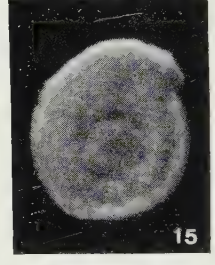
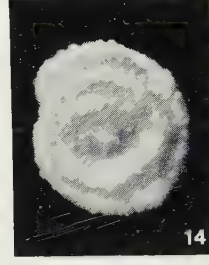
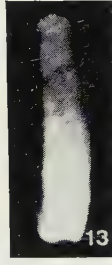
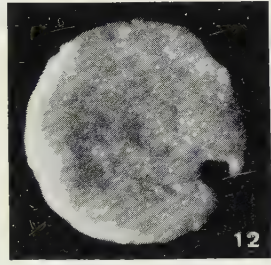
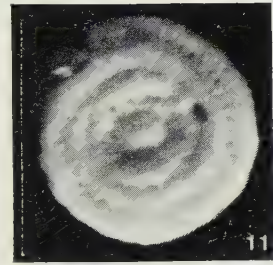
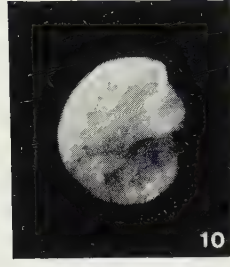
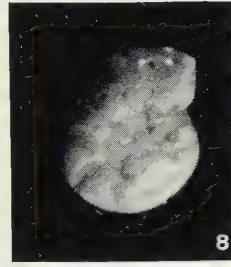
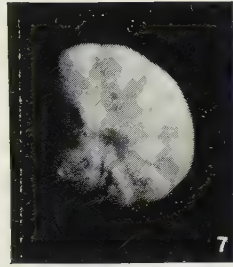
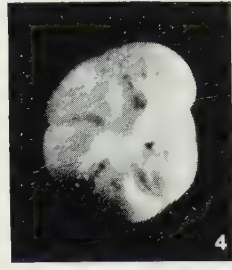
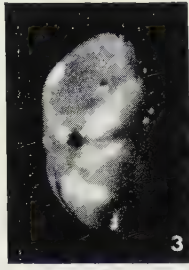
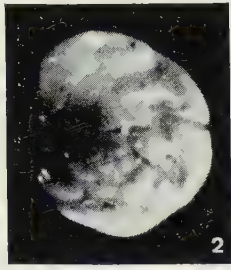
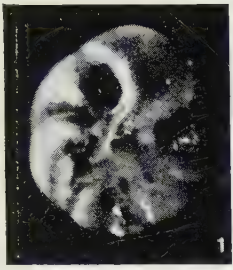


PLANCHE 25

- Fig. 1, 2, 3. — *Ammonia beccarii* (LINNÉ). × 30
Palluau (Vendée).
- Fig. 4, 5, 6. — *Spirillina vivipara* EHRENBURG. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Patellina corrugata* WILLIAMSON. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10 à 22. — *Rotalia serrata* TEN DAM ET REINHOLD. × 50
Palluau (Vendée).

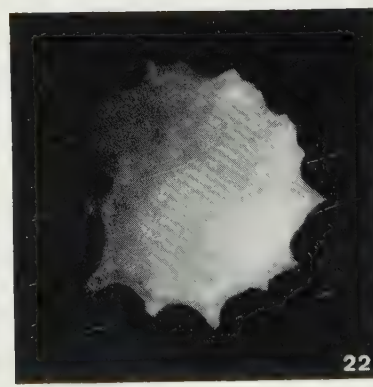
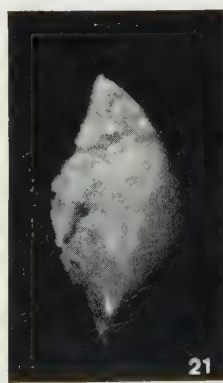
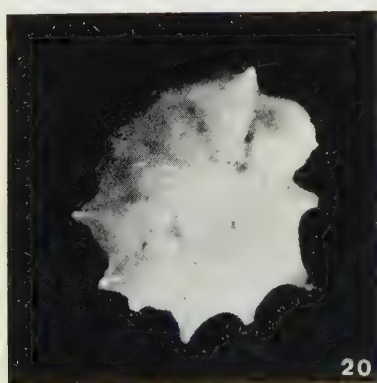
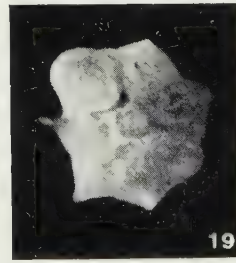
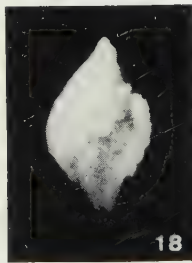
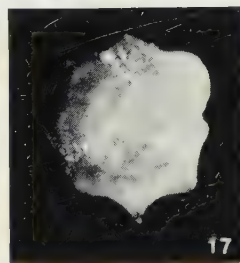
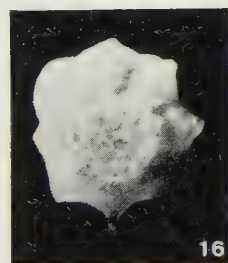
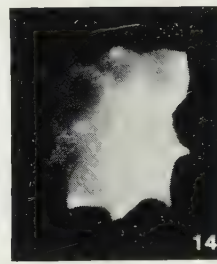
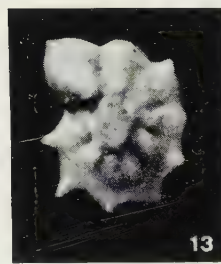
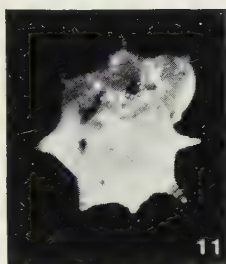
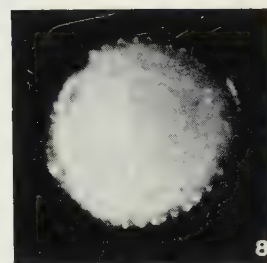
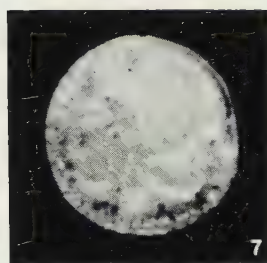
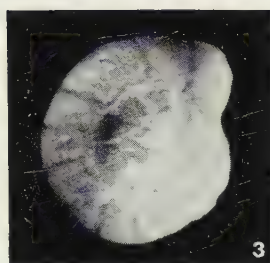
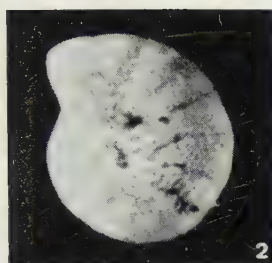
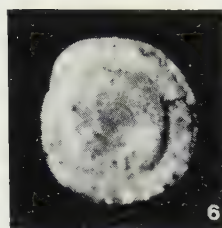
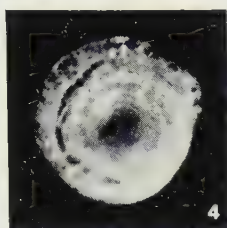
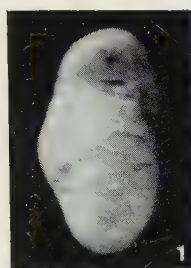


PLANCHE 26

- Fig. 1, 2, 3. — *Rotalia frederica* n. sp. Holotype. × 30
La Pressellière (Maine-et-Loire).
- Fig. 4, 5, 6. — *Rotalia andegavensis* n. sp. Holotype. × 30
La Pressellière (Maine-et-Loire).
- Fig. 7, 8. — *Elphidium semistriatum* (D'ORBIGNY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 9, 10, 11. — *Eponides ? macroporus* n. sp. Holotype. × 150
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 12, 13, 14. — *Eponides ? macroporus* n. sp. × 150
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 15. — *Cribrononion durandae* n. sp. × 70
Chalonnès (Maine-et-Loire).
- Fig. 16, 17. — *Cribrononion durandae* n. sp. Holotype. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19. — *Cribrononion durandae* n. sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 20, 21. — *Elphidium ottmanni* n. sp. Holotype. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22, 23. — *Elphidium ottmanni* n. sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 24. — *Elphidium ottmanni* n. sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 25, 26. — *Elphidium gourinardi* n. sp. Holotype. × 70
Palluau (Vendée).
- Fig. 27, 28. — *Elphidium binodosum* n. sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 29, 30. — *Elphidium binodosum* n. sp. Holotype. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 31, 32. — *Cribrononion perplexum* n. sp. Holotype. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).

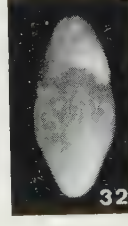
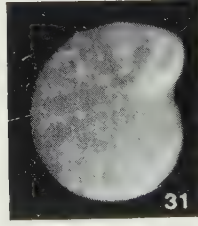
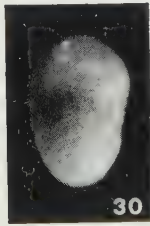
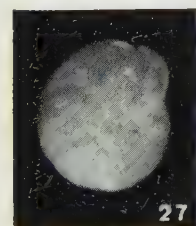
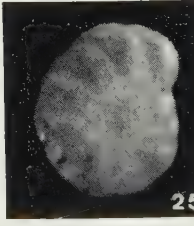
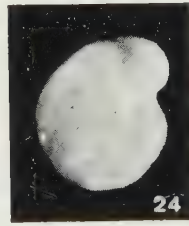
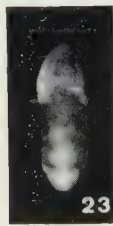
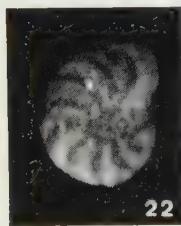
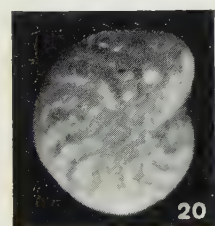
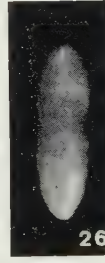
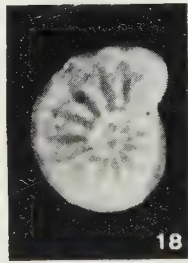
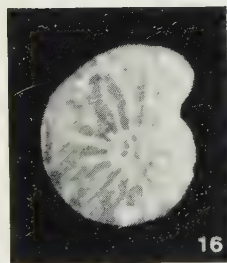
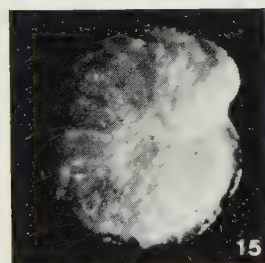
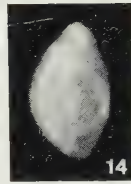
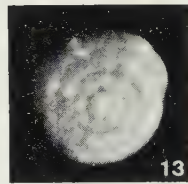
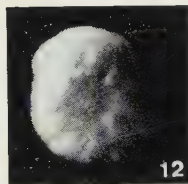
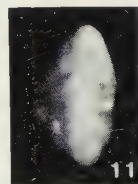
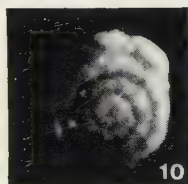
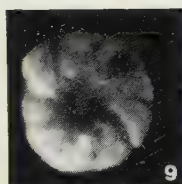
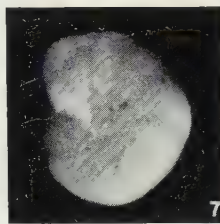
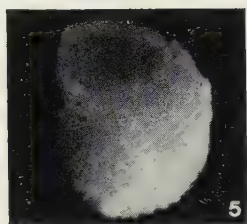
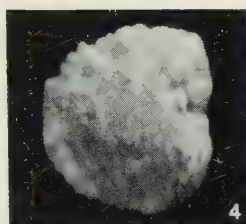
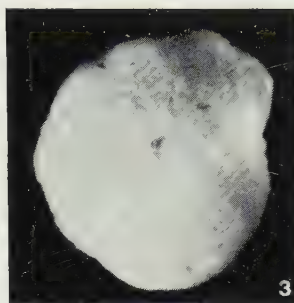
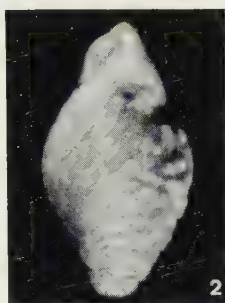
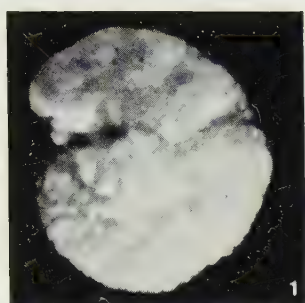


PLANCHE 27

- Fig. 1, 2. — *Cribrononion occidentalis* n. sp. × 70
Chalonnès (Maine-et-Loire).
- Fig. 3, 4. — *Cribrononion occidentalis* n. sp. × 70
Chalonnès (Maine-et-Loire).
- Fig. 5, 6. — *Elphidium* sp. × 70
Chalonnès (Maine-et-Loire).
- Fig. 7, 8. — *Elphidium tersae* n. sp. Holotype. × 70
Palluau (Vendée).
- Fig. 9, 10. — *Elphidium pseudolessonii* TEN DAM ET REINHOLD.
× 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12. — *Elphidium macellum* (FICHTEL ET MOLL). × 70
Apigné (Ille-et-Vilaine).
- Fig. 13, 14. — *Elphidium falunicum* (ALLIX). × 70
La Pressellière (Maine-et-Loire).
- Fig. 15, 16. — *Elphidium macellum* (FICHTEL ET MOLL). × 50
Apigné (Ille-et-Vilaine).
- Fig. 17, 18. — *Cribrononion* sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 19, 20. — *Elphidium* aff. *angulatum* EGGER. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 21, 22. — *Elphidium crispum* (LINNÉ). × 50
Palluau (Vendée).
- Fig. 23, 24. — *Elphidium paraskevaidisi* CHRISTODOULOS. × 50
L'Aubier (Vendée).

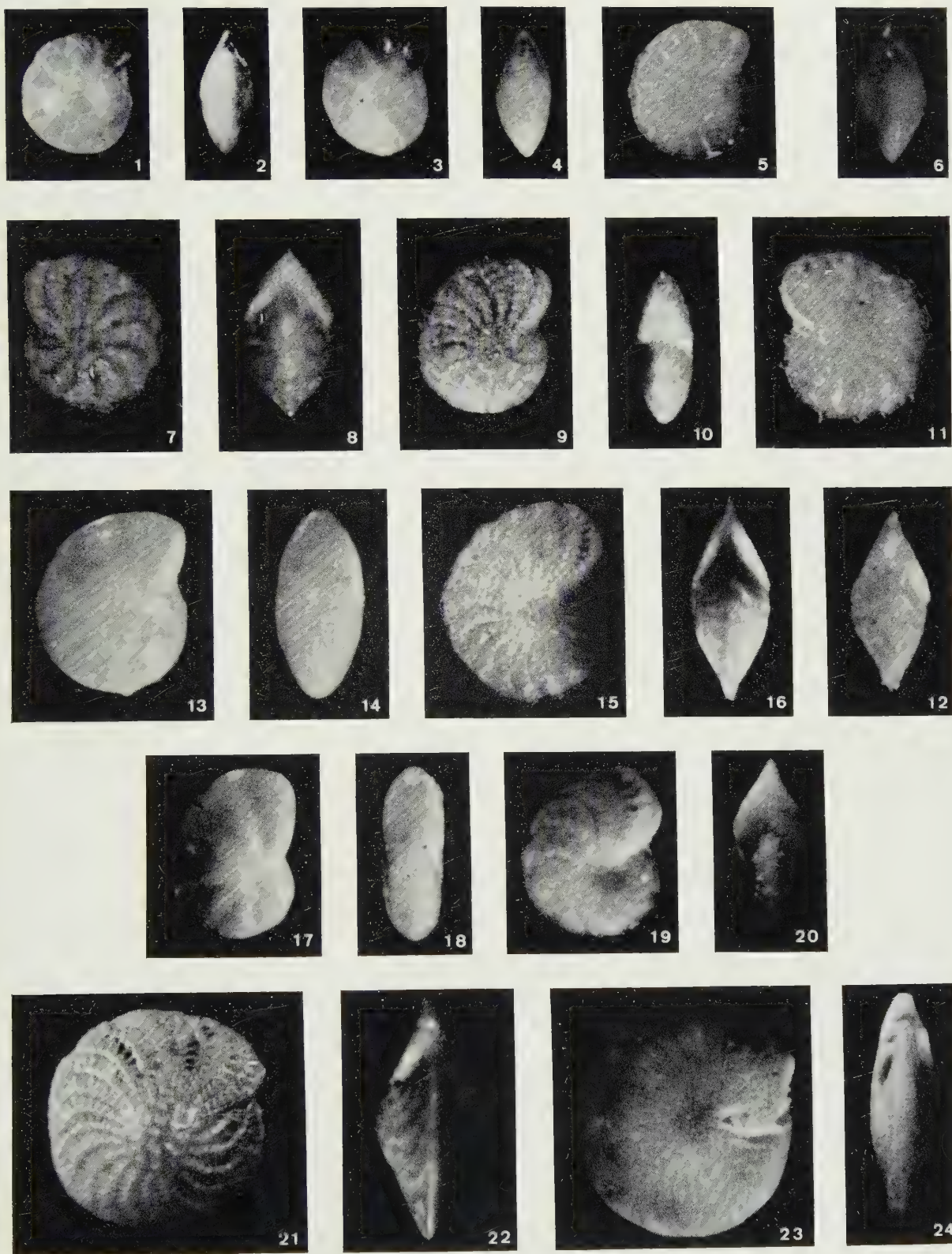


PLANCHE 28

- Fig. 1 à 6. — *Elphidium paraskevaidsi* CHRISTODOULOS. × 50
L'Aubier (Vendée).
- Fig. 7, 8. — *Elphidium fichtellianum* (D'ORBIGNY). × 70
L'Aubinière (Loire-Atlantique).
- Fig. 9, 10. — *Cribrononion* sp. 2. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 11, 12. — *Elphidium flexuosum* (D'ORBIGNY). × 70
Palluau (Vendée).
- Fig. 13, 14. — *Cribrononion durandae* n. sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 15, 16, 17. — *Globigerina* sp. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19, 20. — *Globigerina bulloides* D'ORBIGNY. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 21. — *Orbulina universa* D'ORBIGNY. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).

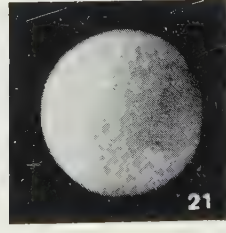
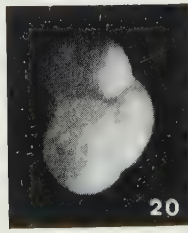
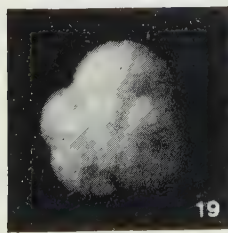
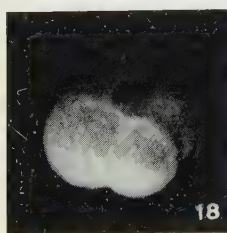
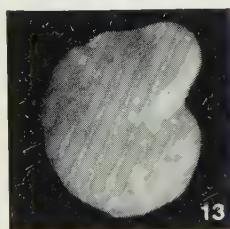
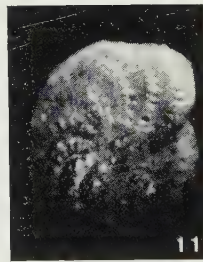
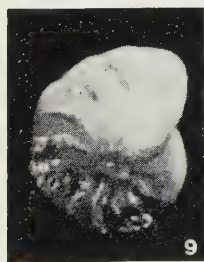
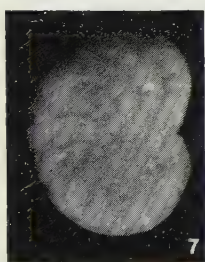
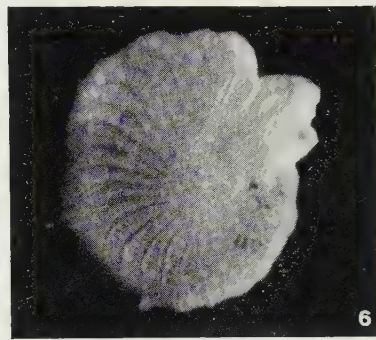
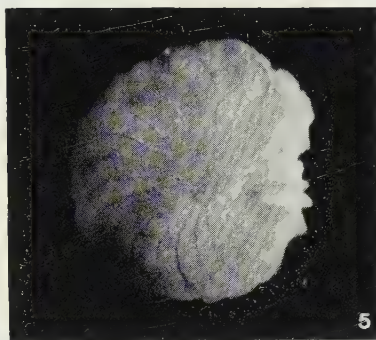
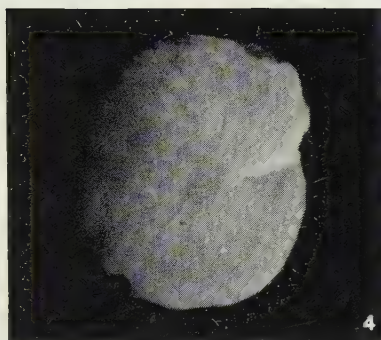
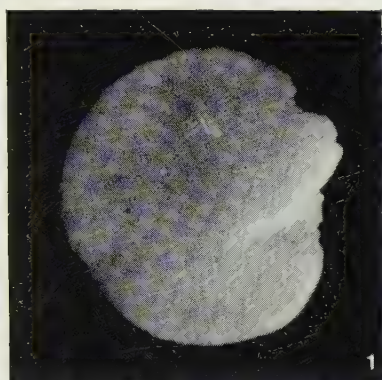


PLANCHE 29

- Fig. 1, 2, 3. — *Eponides repandus* (FICHTEL ET MOLL). × 30
Palluau (Vendée).
- Fig. 4. — *Gypsina vesicularis* (PARKER ET JONES). × 20
Palluau (Vendée).
- Fig. 5, 6, 7. — *Planorbulina mediterranensis* D'ORBIGNY. × 70
Palluau (Vendée).
- Fig. 8, 9. — *Planorbulina mediterranensis* D'ORBIGNY. × 50
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 10, 11, 12. — *Planorbulina* sp. × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 13, 14, 15. — *Cibicides lobatulus* (WALKER ET JACOB). × 70
Apigné (Ille-et-Vilaine).

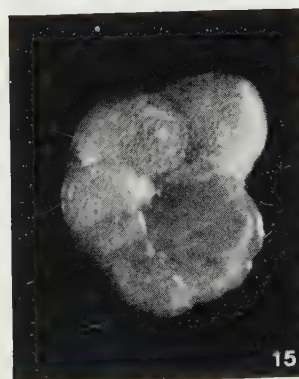
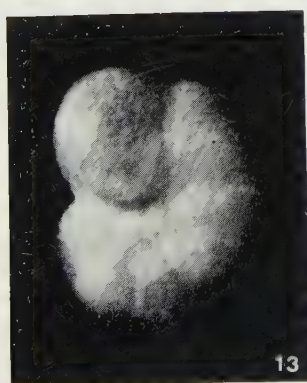
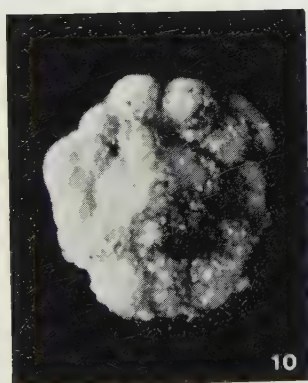
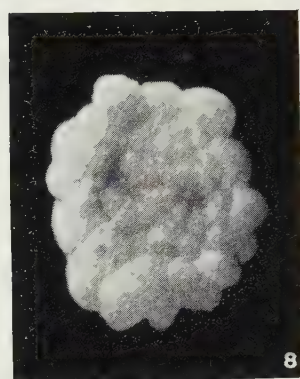
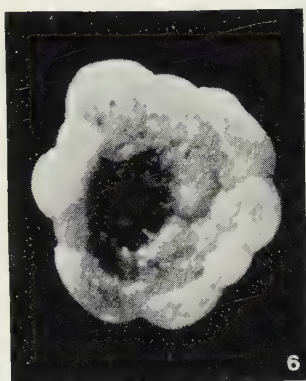
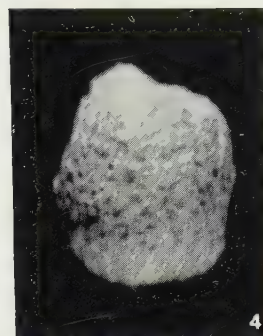
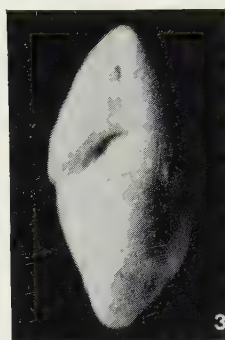


PLANCHE 30

- Fig. 1, 2, 3. — *Cibicides advenus* D'ORBIGNY. × 50
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5, 6. — *Cibicides advenus* D'ORBIGNY. × 70
Apigné (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Cibicides cookei* CUSHMAN var. *limbatusuturalis*
VAN VOORTHUYSEN. × 50
Palluau (Vendée).
- Fig. 10, 11, 12. — *Cibicides cookei* CUSHMAN var. *limbatusuturalis*
VAN VOORTHUYSEN. × 50
L'Aubier (Vendée).
- Fig. 13, 14, 15. — *Cibicides* aff. *ungerianus* D'ORBIGNY. × 70
Palluau (Vendée).
- Fig. 16, 17, 18. — *Cibicides lobatulus* (WALKER ET JACOB) var.
grossa TEN DAM ET REINHOLD. × 30
Falleron (Vendée).
- Fig. 19, 20, 21. — *Hanzawaia nitidula* (BANDY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22, 23, 24. — *Cibicides refulgens* MONTFORT. × 50
Palluau (Vendée).
- Fig. 25, 26, 27. — *Heterolepa frequens*, n. sp. Holotype. × 50
Le Temple-du-Cerisier (Ille-et-Vilaine).

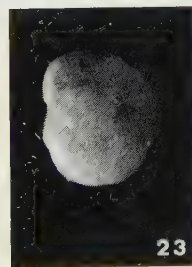
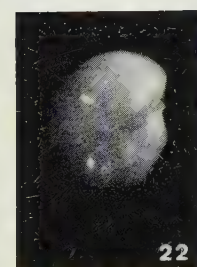
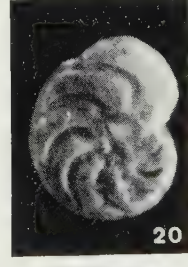
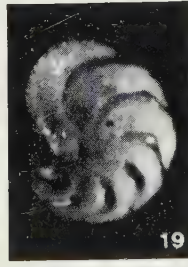
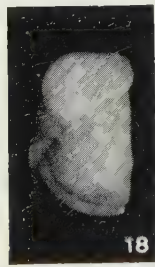
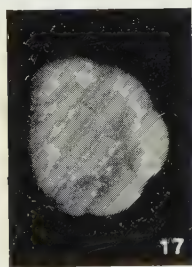
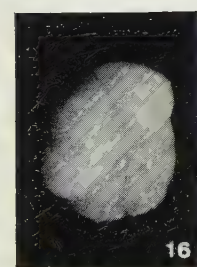
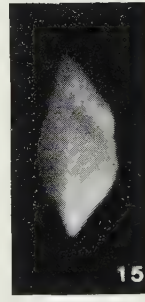
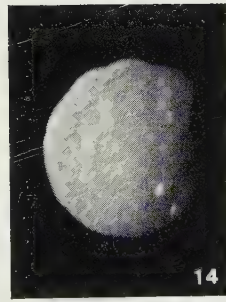
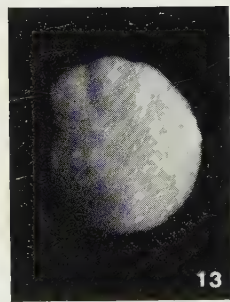
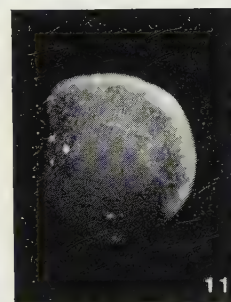
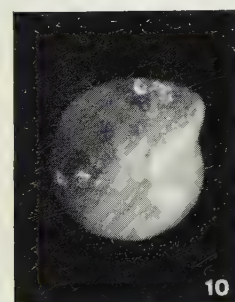
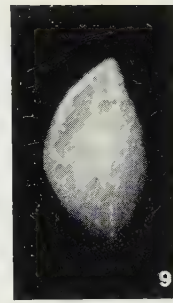
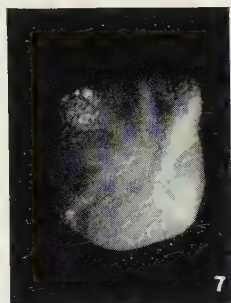
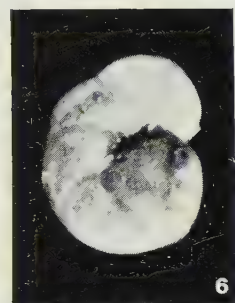
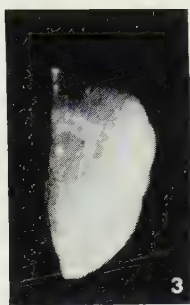
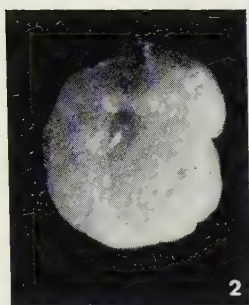
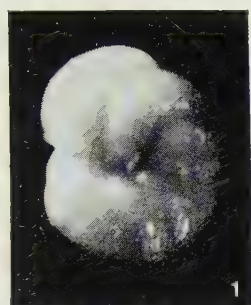


PLANCHE 31

- Fig. 1, 2, 3. — *Loxostoma noelae* n. sp. (1, 2, forme B; 3, forme A). × 100
L'Aubinière (Loire-Atlantique).
- Fig. 4. — *Virgulina schreibersiana* CZJZEK. × 70
Apigné (Ille-et-Vilaine).
- Fig. 5, 6. — *Loxostoma sinuosum* CUSHMAN. × 70
Palluau (Vendée).
- Fig. 7, 8, 9. — *Caucasina* sp. × 100
Apigné (Ille-et-Vilaine).
- Fig. 10, 11, 12. — *Caucasina* sp. × 100
Palluau (Vendée).
- Fig. 13. — *Sigmavirgulina tortuosa* (BRADY). × 70
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 14, 15. — *Loxostoma noelae* n. sp. × 60
Falleron (Vendée).
- Fig. 16, 17. — *Loxostoma noelae*, n. sp. × 60
L'Aubinière (Loire-Atlantique).
- Fig. 18, 19. — *Loxostoma noelae* n. sp. × 60
L'Aubinière (Loire-Atlantique).
- Fig. 20, 21. — *Loxostoma ovalis*, n. sp. Holotype. × 60
Chalonnnes (Maine-et-Loire).
- Fig. 22. — *Loxostoma ovalis* n. sp. × 60
La Pressellière (Maine-et-Loire).
- Fig. 23. — *Loxostoma ovalis*, n. sp. × 60
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 24. — *Loxostoma noelae* n. sp. × 60
Apigné (Ille-et-Vilaine).
- Fig. 25. — *Loxostomum sinuosum* CUSHMAN. × 60
L'Aubinière (Loire-Atlantique).
- Fig. 26, 27, 28. — *Asterigerinata stellata* n. sp. Holotype. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 29, 30, 31. — *Cassidulina caribea* REDMOND. × 100.
Le Temple-du-Cerisier (Ille-et-Vilaine).

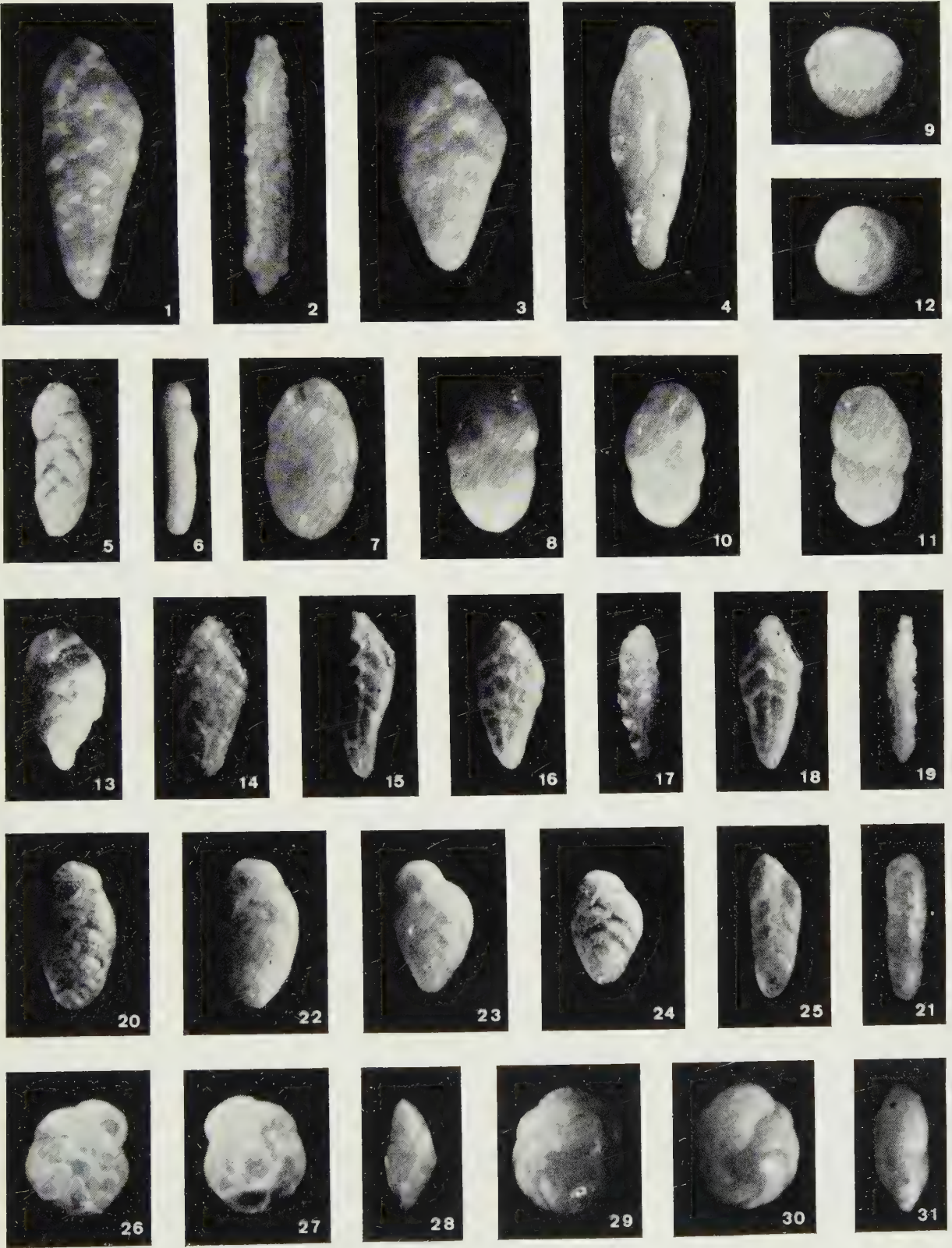


PLANCHE 32

- Fig. 1, 2, 3. — *Cassidulina caribearia* REDMOND. $\times 100$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 4, 5, 6. — *Cassidulina subglobosa* BRADY. $\times 100$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 7, 8, 9. — *Cassidulina crassa* D'ORBIGNY. $\times 70$
L'Aubier (Vendée).
- Fig. 10, 11, 15. — *Alabamina* sp. $\times 100$
Apigné (Ille-et-Vilaine).
- Fig. 12, 13, 14. — *Gyroidina* sp. $\times 100$
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 16, 17, 18. — *Anomalinoides* sp. $\times 70$
Apigné (Ille-et-Vilaine).
- Fig. 19, 20, 21. — *Alabamina* sp. $\times 100$
La Pressellière (Maine-et-Loire).
- Fig. 22, 23, 24. — *Ehrenbergina alicantina* COLOM. $\times 100$
Palluau (Vendée).

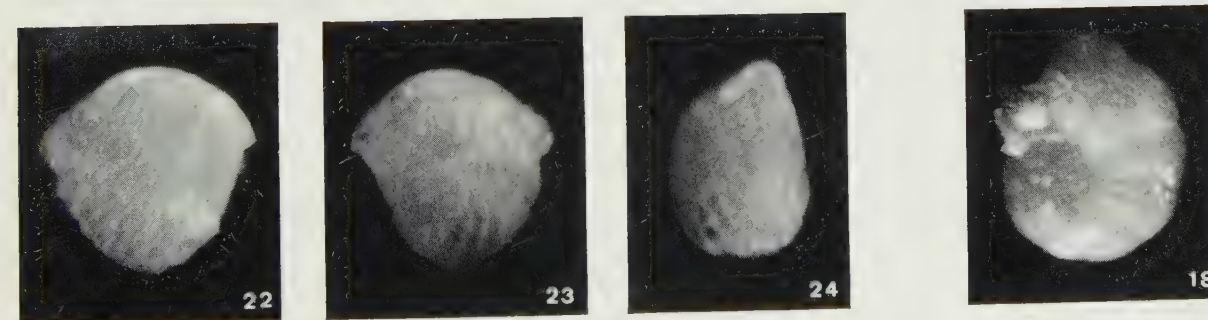
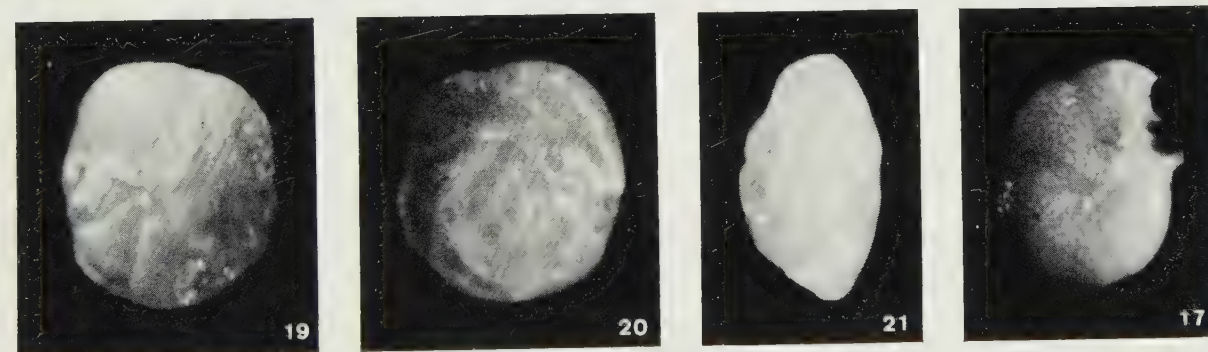
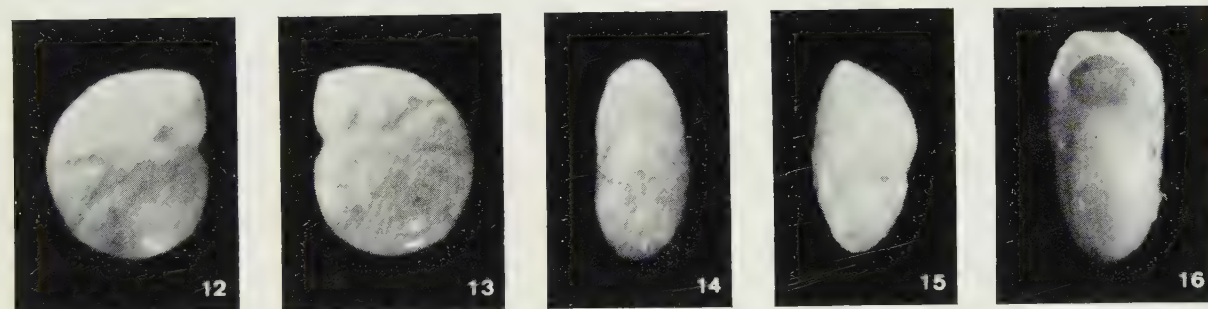
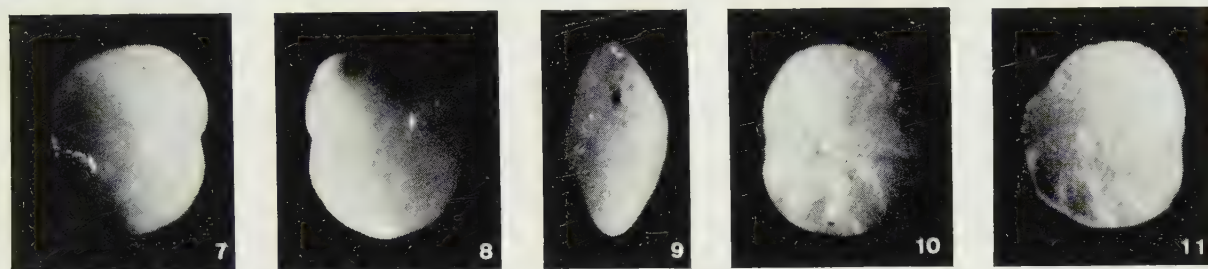
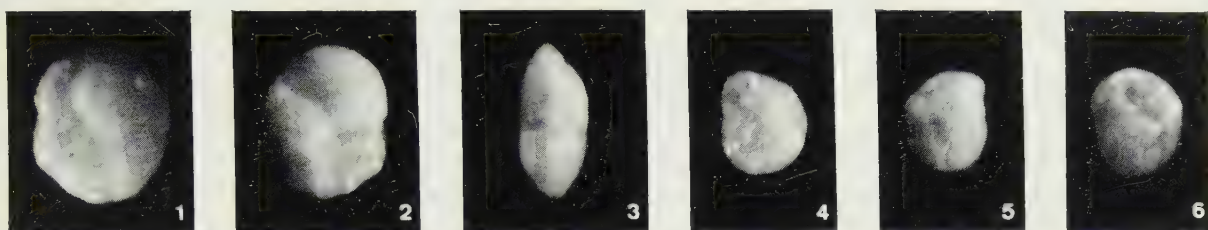


PLANCHE 33

- Fig. 1, 2, 3. — *Gyroidina umbonata* (SILVESTRI). × 100
L'Aubier (Vendée).
- Fig. 4, 5, 6. — *Gyroidina umbonata* (SILVESTRI). × 100
Palluau (Vendée).
- Fig. 7, 8, 9. — *Alabamina* (SVRATKINA) *tuberculata* BALKWILL
ET WRIGHT. × 100
Palluau (Vendée).
- Fig. 10, 11. — *Nonion pauperatum* BALKWILL ET WRIGHT.
× 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 12, 13. — *Nonion crassessuturatus* VAN VOORTHUYSEN.
× 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 14, 15. — *Nonion* aff. *ibericum* CUSHMAN. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 16, 17. — *Nonion* aff. *ibericum* CUSHMAN. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 18, 19. — *Astrononion italicum* CUSHMAN ET EDWARDS.
× 70
Palluau (Vendée).
- Fig. 20, 21. — *Nonion* aff. *ibericum* CUSHMAN. × 100
Le Temple-du-Cerisier (Ille-et-Vilaine).
- Fig. 22, 23. — *Alliatina excentrica* (DI NAPOLI). × 50
Palluau (Vendée).
- Fig. 24, 25. — *Quinqueloculina cliarensis* HERON-ALLEN ET
EARLAND. × 30
Palluau (Vendée).
- Fig. 27, 28, 29. — *Lamarckina* sp. × 100
La Pressellière (Maine-et-Loire).

Erratum :

Lire : Fig. 24, 25. — *Quinqueloculina longirostra* D'ORBIGNY.

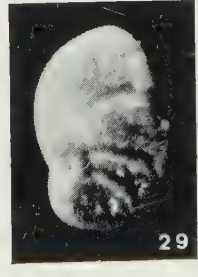
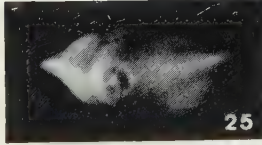
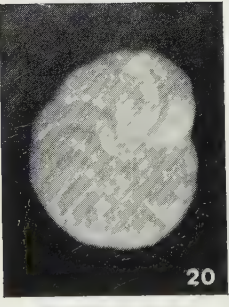
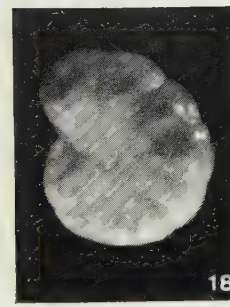
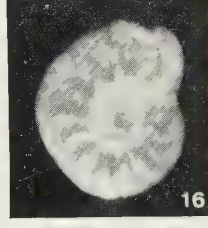
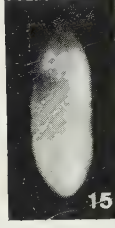
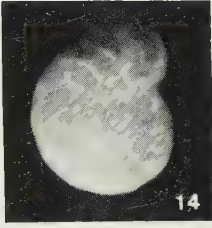
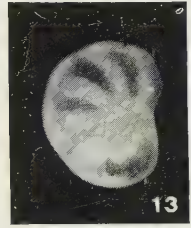
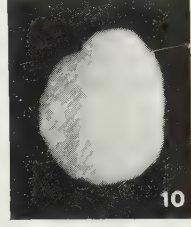
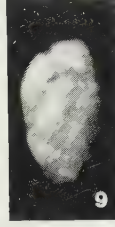
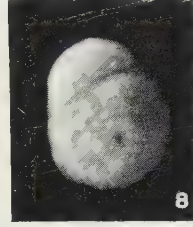
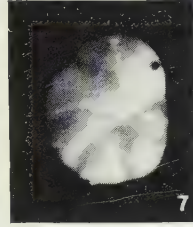
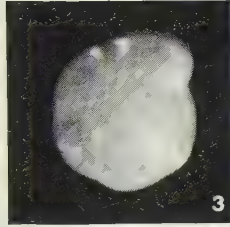
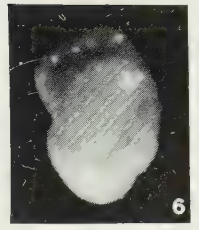
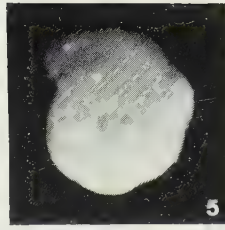
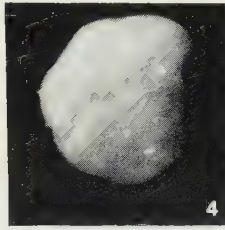
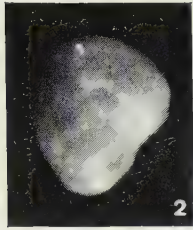
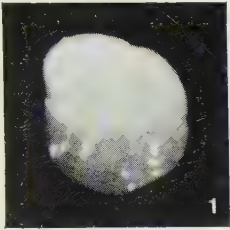


PLANCHE 34

- Fig. 1, 2. — *Textularia deperdita* D'ORBIGNY. $\times$ 70
Palluau (Vendée).
- Fig. 3, 4. — *Spiroloculina depressa* D'ORBIGNY. $\times$ 50
Palluau (Vendée).
- Fig. 5, 6. — *Guttulina* sp. $\times$ 50
Palluau (Vendée).
- Fig. 7, 8, 9. — *Tretomphalus* sp. $\times$ 60
Palluau (Vendée).
- Fig. 10, 11, 12. — *Buccella frigida* (CUSHMAN) var. *granulata* (DI
NAPOLI). $\times$ 70
Le Temple-du-Cerisier (Ille-et-Vilaine).

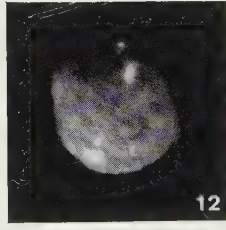
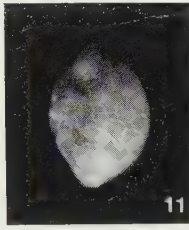
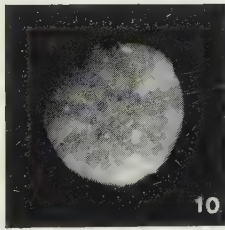
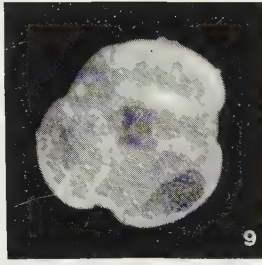
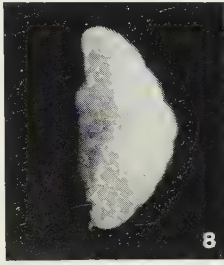
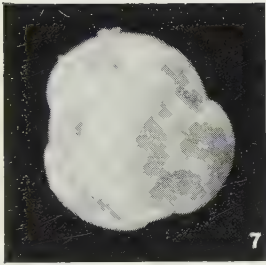
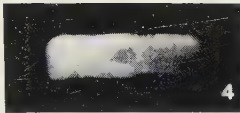
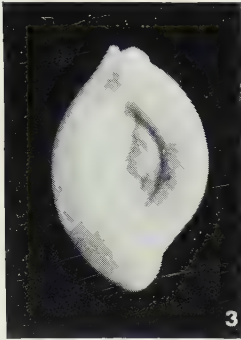


PLANCHE 35

Lagena pisiformis n. sp.

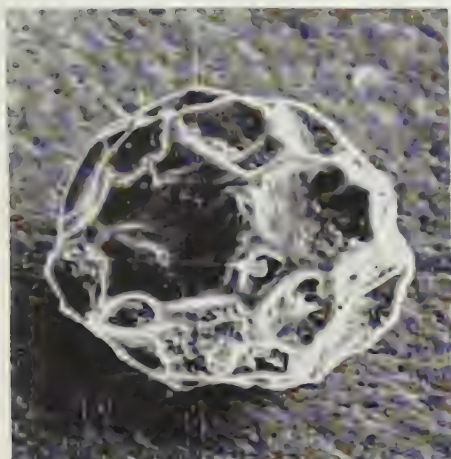
Fig. 1. — $\times$ 300

Fig. 2. — $\times$ 1.000

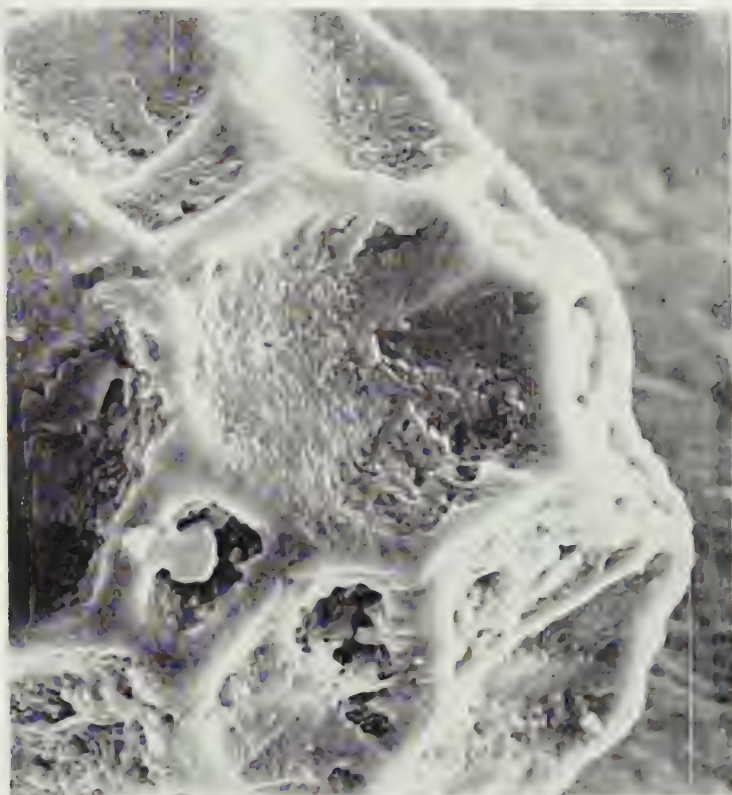
Fig. 3. — $\times$ 300

Fig. 4. — $\times$ 1.800

Clichés JEOL



1



2



3



4

PLANCHE 36

Bolivina laffittei n. sp.

Fig. 1. — $\times$ 180

Fig. 2. — $\times$ 900

Buccella nuda n. sp.

Fig. 3. — $\times$ 180

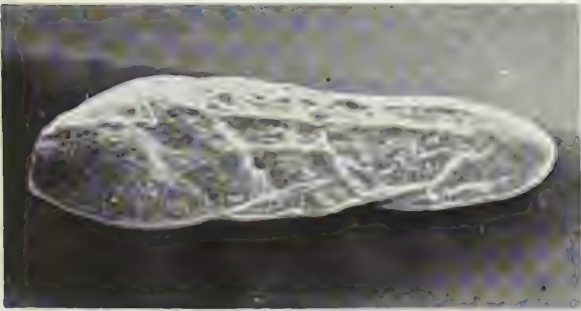
Fig. 4. — $\times$ 4.500

Eponides ? macroporus n. sp.

Fig. 5. — $\times$ 440

Fig. 6. — $\times$ 1.800

Clichés Muséum d'Histoire naturelle de Paris



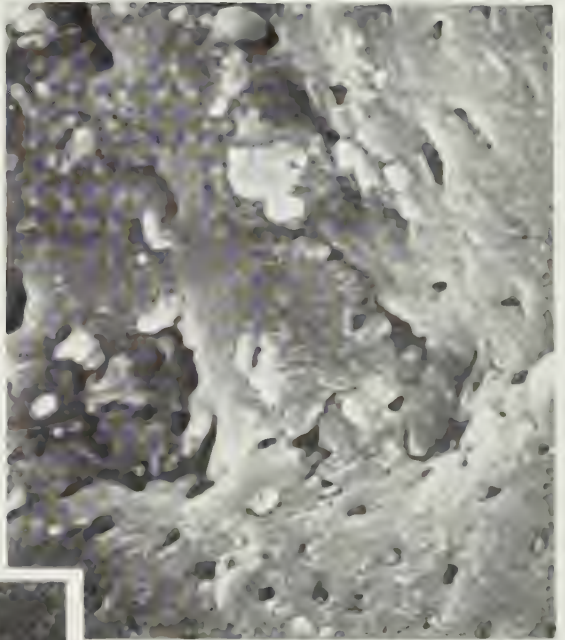
1



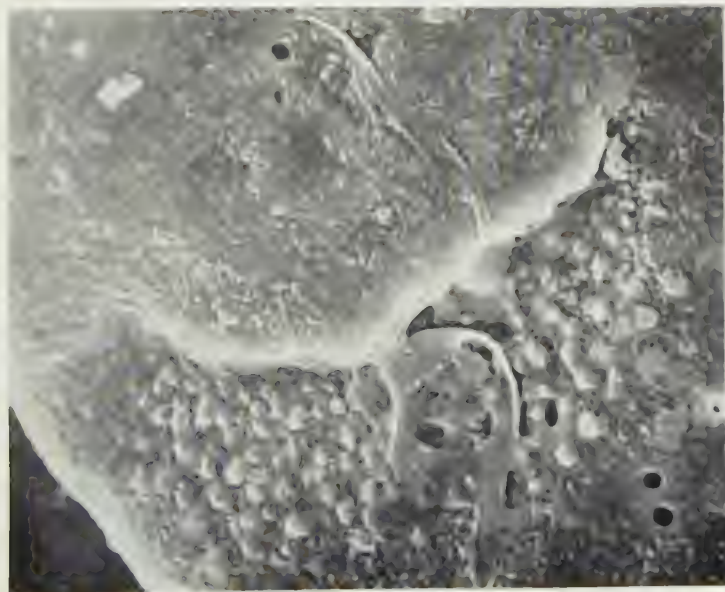
3



2



4



6



5

PLANCHE 37

Glabratella sidebottomi nom. nov.

Fig. 1. — × 180

Fig. 2. — × 900

Fig. 3. — × 180

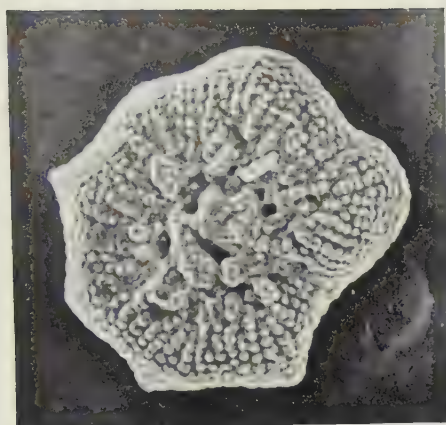
Fig. 4. — × 1.850

Cribrononion perplexum n. sp.

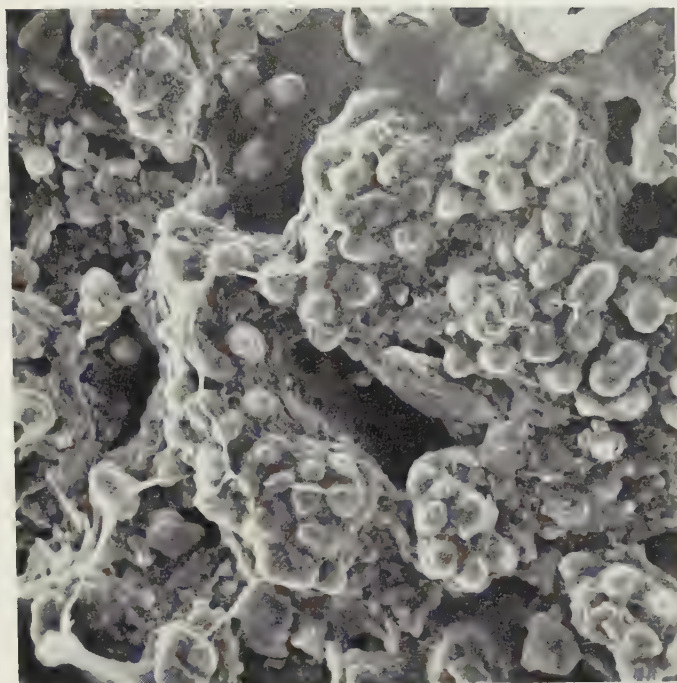
Fig. 5. — × 180

Fig. 6. — × 450

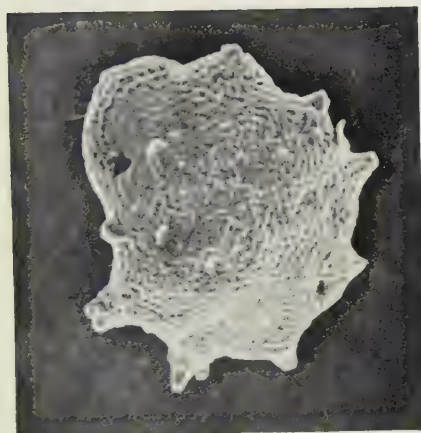
Clichés Muséum d'Histoire naturelle de Paris



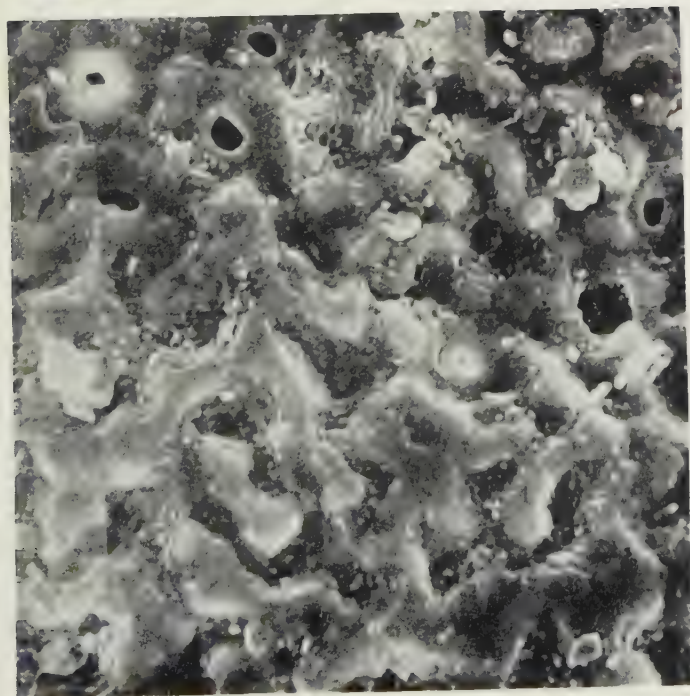
1



2

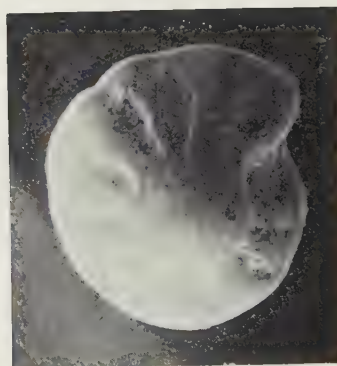


3



4

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6



PLANCHE 38

Cribrononion occidentalis n. sp.

Fig. 1. — $\times$ 300

Fig. 2. — $\times$ 1.000

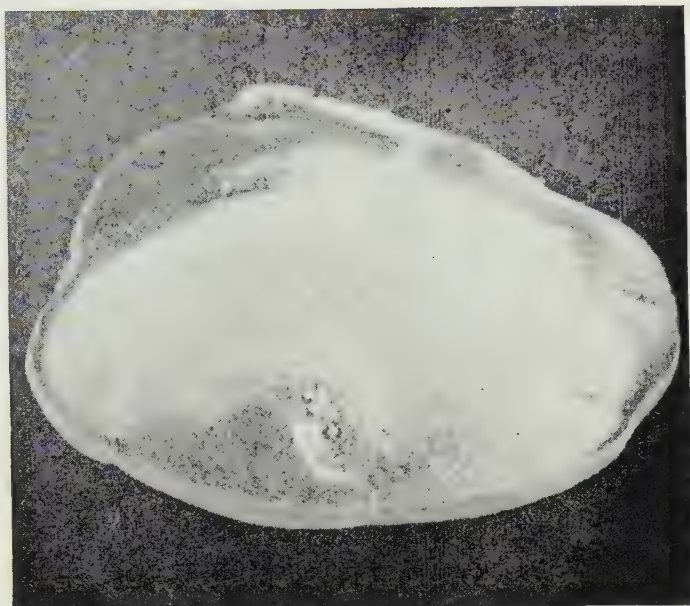
Clichés JEOL

Elphidium binodosum n. sp.

Fig. 3. — $\times$ 180

Fig. 4. — $\times$ 500

Clichés Muséum d'Histoire naturelle de Paris



1



3

2



4

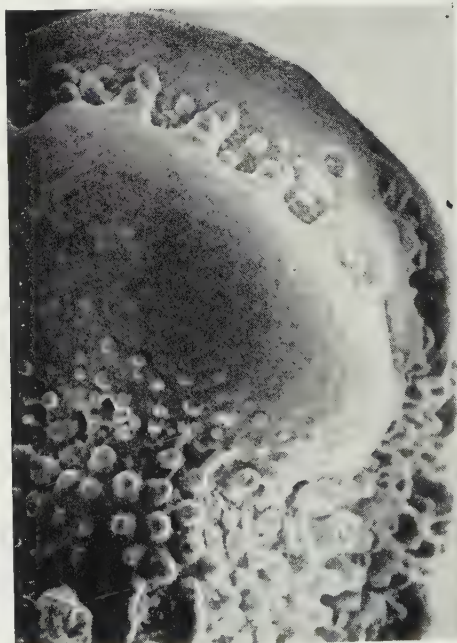


PLANCHE 39

Elphidium binodosum n. sp.

Fig. 1. — $\times$ 450

Fig. 2. — $\times$ 1.850

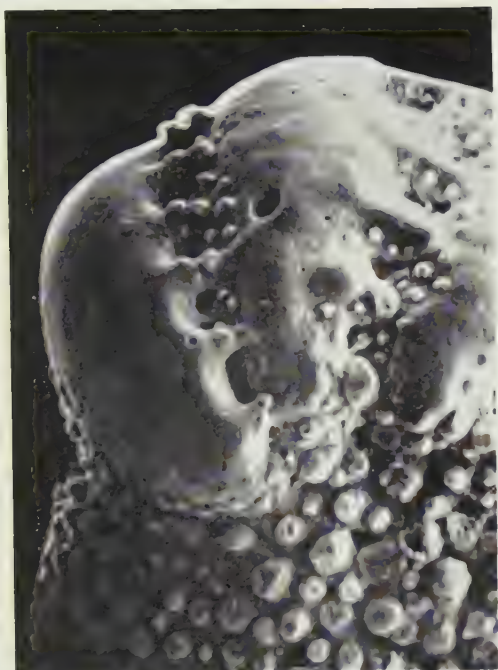
Clichés Muséum d'Histoire naturelle de Paris

Elphidium tersae n. sp.

Fig. 3. — $\times$ 300

Fig. 4. — $\times$ 560

Clichés JEOL



1



3

2



4



PLANCHE 40

Elphidium gourinardi n. sp.

Fig. 1. — $\times$ 300

Fig. 2. — $\times$ 1.000

Fig. 3. — $\times$ 3.000

Clichés JEOL



1



3



2

PLANCHE 41

Cribrononion durandae n. sp.

Fig. 1. — $\times 180$

Fig. 2. — $\times 900$

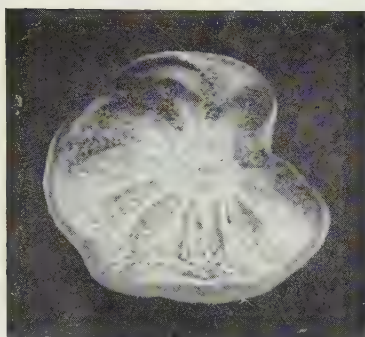
Elphidium ottmanni n. sp.

Fig. 3. — $\times 190$

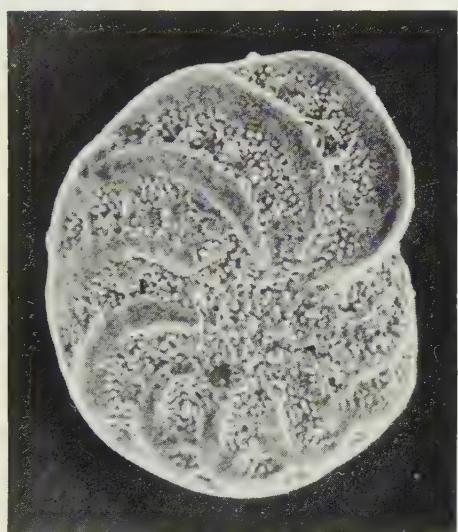
Fig. 4. — $\times 450$

Fig. 5. — $\times 900$

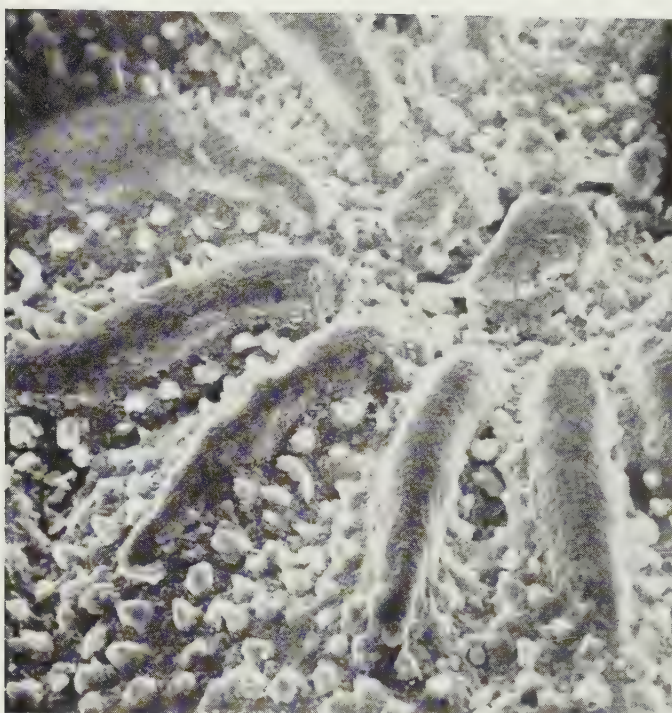
Clichés Muséum d'Histoire naturelle de Paris



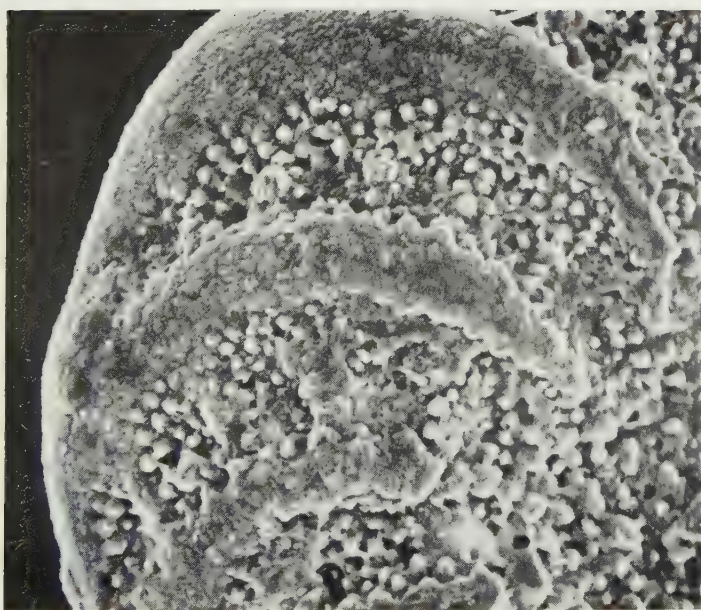
1



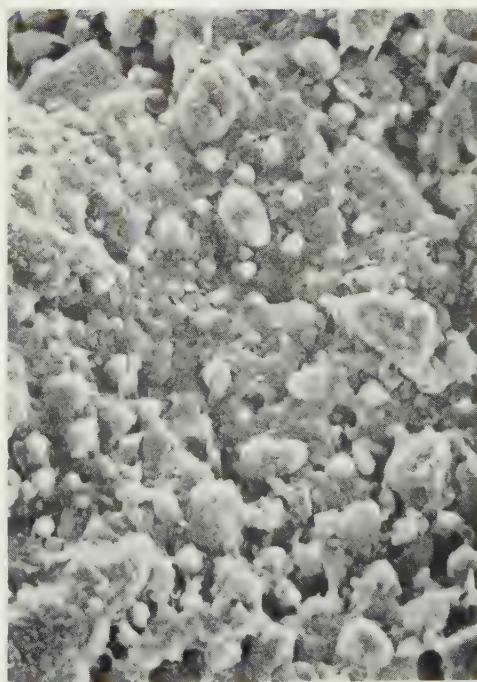
3



2



4



5

PLANCHE 42

Heterolepa frequens n. sp.

Fig. 1. — × 300

Fig. 2. — × 700

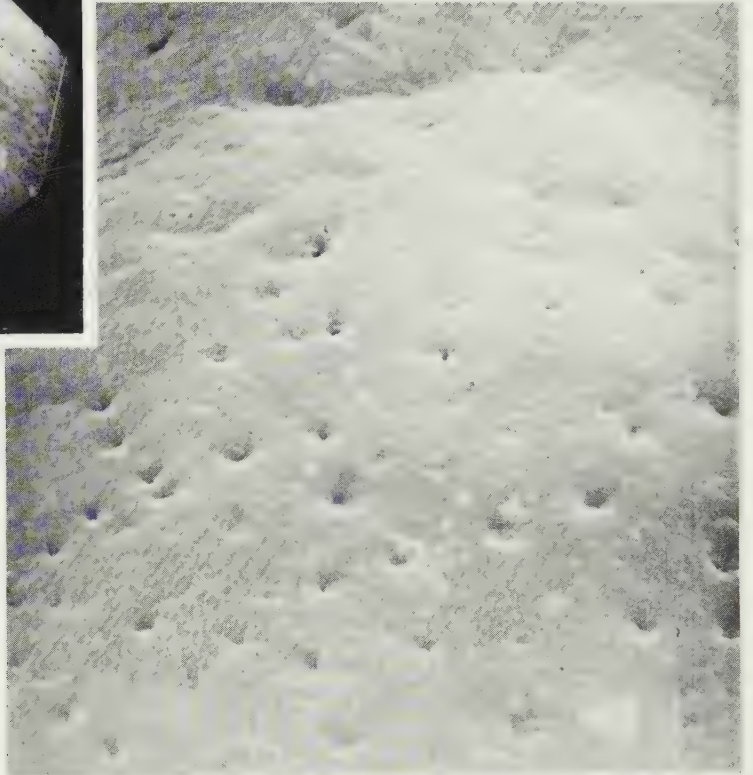
Fig. 3. — × 180

Fig. 4. — × 4.500

Clichés JEOL



1



2

3



4

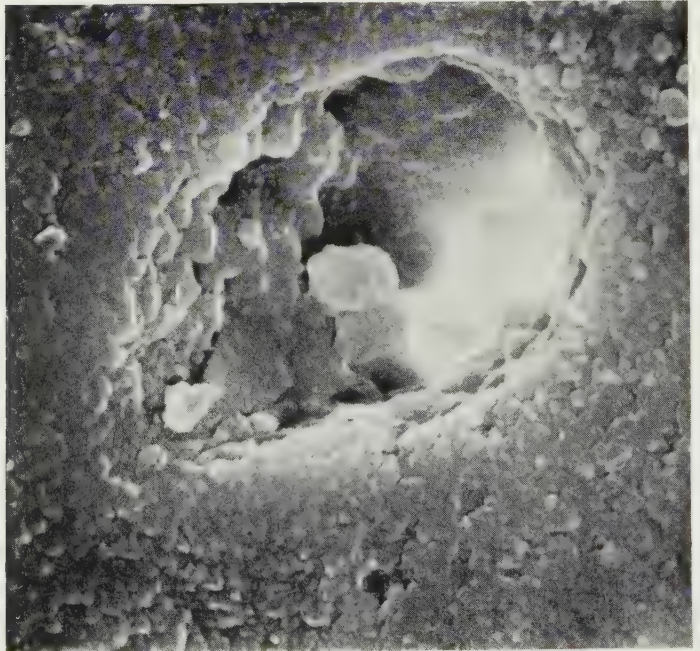


PLANCHE 43

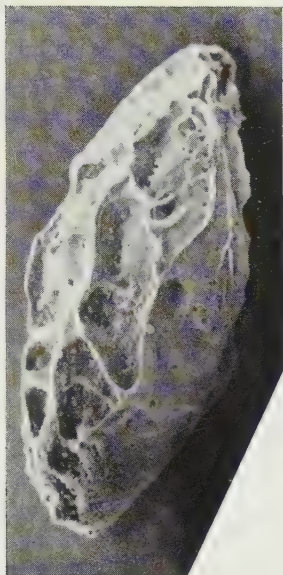
Loxostoma noelae n. sp.

Fig. 1. — × 190

Fig. 2. — × 1.900

Fig. 3. — × 950

Clichés Muséum d'Histoire naturelle de Paris



1



2



3

PLANCHE 44

Nonion aff. *ibericum* CUSHMAN

Fig. 1. — × 180

Fig. 2. — × 500

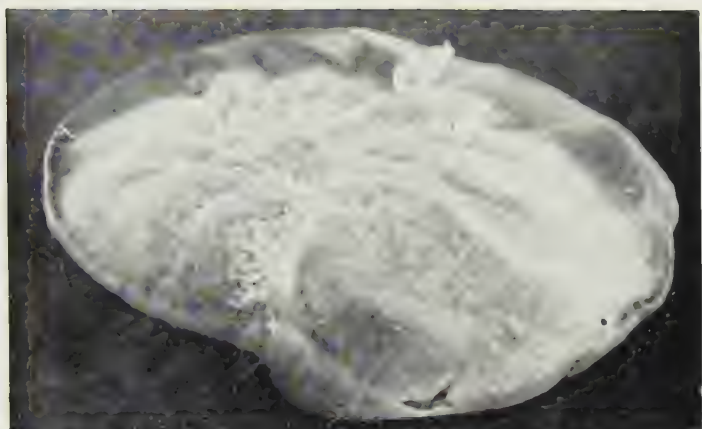
Clichés JEOL

Fig. 3. — × 500

Fig. 4. — × 1.000

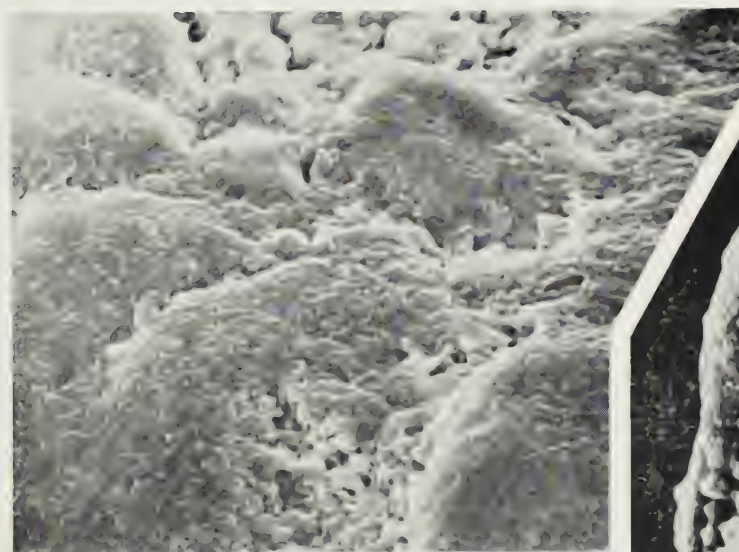
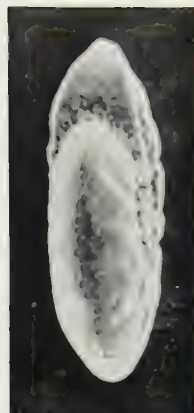
Fig. 5. — × 5.000

Clichés Muséum d'Histoire naturelle de Paris

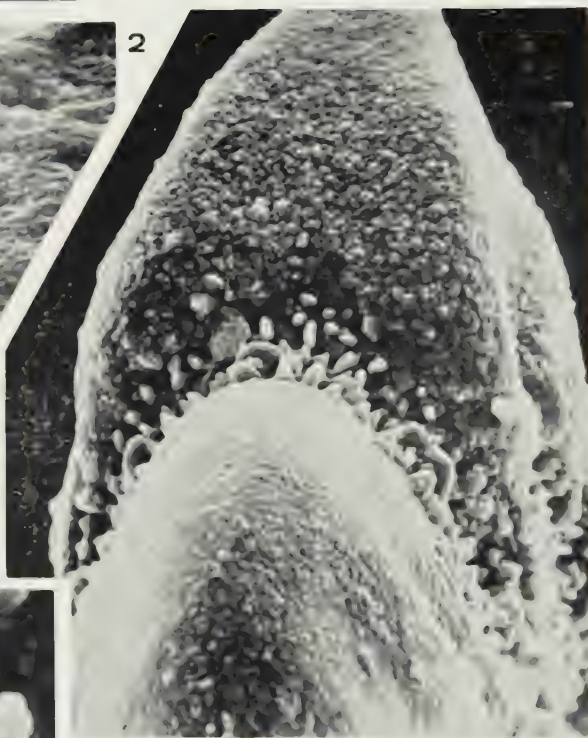


1

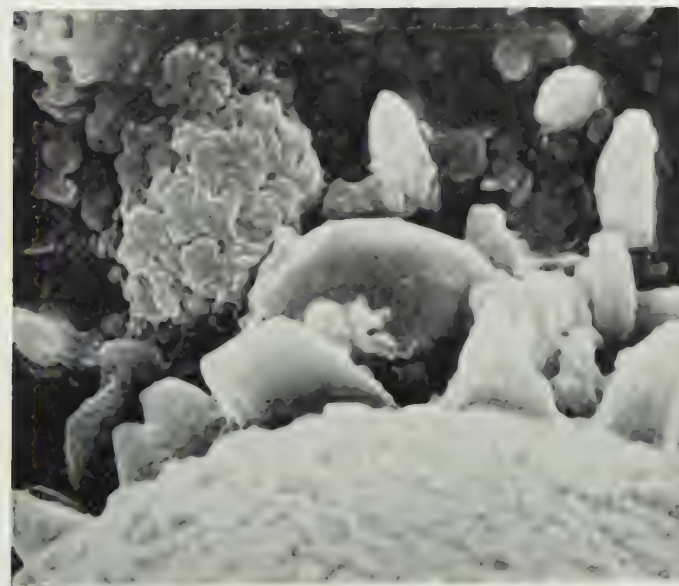
3



2



4



5

